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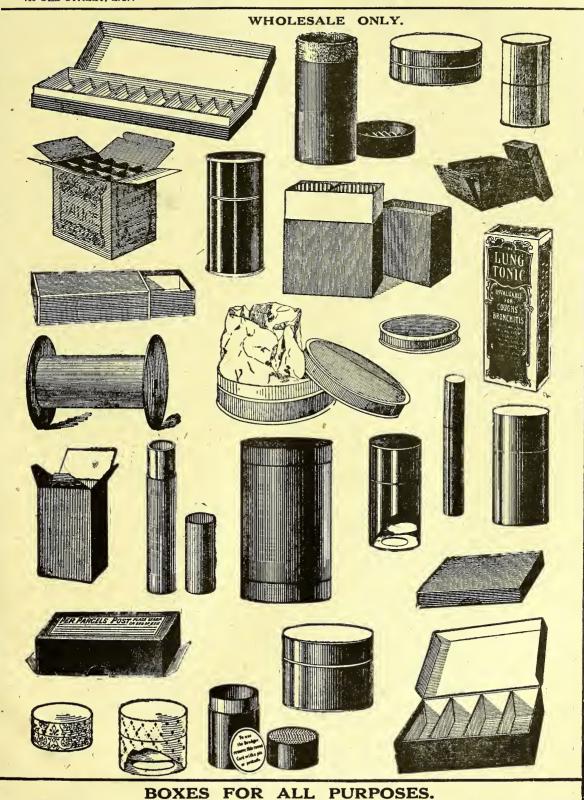
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endurance. Then me places the skin broke, leaving
unpleasant sees. Lottons and outments failed to do
me any good at all.

me any good at all.

"A near relative then suggested Zam-Buk, so every night I smeared quantity of Zam-Buk, so every night I smeared quantity of Zam-Buk over the affected parts. Each morning my skin did not seen quite so red aud angry, and I endured less discomfost in the course of my day's duties. By degrees new, beaithy skin appeared there is now not a mark on my chest or limbs. Zam-Bukk has completely curved me, and given me a new, bealthy skin."

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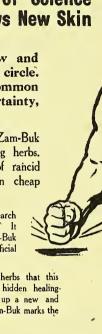
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INDEX TO ADVERTISERS

			_
q	ALLEN, STAFFORD, & SONS, LD., Essen-	BURKETT, SHARP & Co., LD., Chemi-	FIELD,
	tial Oils 5	cals, &c vi	FINK,
	ALLIANCE DRUG & CHEM. Co., Chemi-	BURNSIDE & Co., Eucalyptus xviii	FORD,
	cale xviii	BURROUGH, J., LD., Absolute Alcohol Text	FORSH
	AMSTERDAM QUININE WORKS XXIV	BURROUGHS WELLCOME & Co.,	Fox,
	ANGLO-AMEBICAN OIL Co., LD., Nujol xxix	Bismuth Salts 43	
	ANGLO-FRENCH DRUG Co., LD XXV	Bush, W. J., & Co., LD., Perfumery 25	FREUD
~	Anglodol, LD., Dental Paste 26	BUSH, BEACH & GENT INC, Chemicols viii	FULFOR
	ARECO, LD., Toilet Preps 27	CADBURY BROS., Cocoa Cover	FULLW
	ARMOUR & Co., LD., Proprietary xvii, Text	CALLARD & Co., Vitmar xl	GARDI
	AYRTON, SAUNDERS & Co., LD., Whole-	CALNAN, W. H., & Co., Perfumery 24	GEORG
	sale Druggists	CARMICHAEL, F. J., & Co., Camomiles xvi	GIBBS,
	BAILEY, R., & SON, LD., Cotton Wool, &c. 18	CARR, G., & Co., LD., Tublets xvi	GIGNO
	BAKER, PARSON C., Chemists' Valuer	CARRERAS, A. & E., Toilet	GILLAR
	Col. Supp.	CARTER, R. E., LD., Photo Albums lviii	GOODA
	BANDOENG QUININE FACTORIES XXIII	CASSON CHEMICAL Co., LD., Hair Cream 32	Chen
	BANISTER STREET WORKS, LD., Muchinery 1	CHRISTIAN WORKS MADORRY LD Male	Gougi
	BARKER, R. W Text	CHEMICAL WORKS MADOERY, LD., Male	GOWEI
	BATH AND WEST OF ENGLAND COLLEGE lviii BATTIN, H., & Co., Liquorice, &c xvi	CHIESMAN, F., & Co., Olive Oil, &c. XXXVII	GRAES
		CHIRIS, ANTOINE, LD., Ess. Oils	LD.
	BEECHAM, THOMAS, Pills xxvi Bell, J., & Croyden, LD Text	CHRISTY, T., & Co., Shumpoo xiiv	GREEF
	BENZOATES, LD., Chemicalsiv	CLAYTON ANILINE Co., LD., Chemicals X	GRIMS GUILD
	Berdoe & Fish Col. Supp.	COLEMAN & Co., Wincarnis xlin	HANCO
	BERE, F. W., & Co., LD xiv	CONDUIT, FRANK A. hi	HARKE
	Rerry's J R Sons Co Inc Pet	CONNELL, A., & Co., Toilet XXII	LD.,
	Prods xxxvi	COOK, E., & Co., LD., Soaps 57	HARW
	BERTON, ARTHUR, LD., Scent Sprays xlix	COOPER LABORATORY, Chemicals 1V	HARLE
	BLACKALLER & PLEASANCE, Eaa de	COOPER, SON & Co., LD., Cachets xliv	HARRI
	Cologne12	CRAMPTON, J., & Co., LD xl11	HENRY
	Cologne	CROOKES' LABORATORIES XXXIII	HERTZ
	BLINBLOW ASTHMA CURE XXviii	Cuxson, Gerrard & Co., Ld 19	HEYMA
	BLYTHE, W., & Co., LD., Epsom Salts ii	C.V.O. CHEMICAL WORKS, LD XXXV	HILL I
	BOOTS PURE DRUG Co., LD., Chemicals xi	DE VILBISS Co., LD , Atomisers, &c. xlvii	HIND
	BOAKE, A., ROBERTS & Co., LD.,	Dearborn, Ld., Toilet Specialities 34	Ногги
	Essences xlv	Dee Oil Co., Ld., Petroleum Jelly xxxvi	LD.,
	Boisselier, A., & Lawrence, Drags xii	DEPRETER, A. E., Brushes, &c 42	HOGAR
	BOURJOIS, A., & CIE, LD 40	DICKESON, R., & Co., Besorbon xliv	HOLLA
	BRAMWELL, E., & Son, LD., Chemicals xviii	Dols & Co., Ld., Volatalise Flannel 4	HOLLA
	BRITISH ANTAPSAL. Co., LD., Nasol	DOUIN & JOUNEAU, Printers	Horri
	Appliance	DOWELL, J., & SONS, LD., Glassware iii	Ногт,
	British Casein Co. (1911), Ld xiv	DUDLEY & Co., Cosh Tills XXXVI	Ноов,
	BRITISH CELLULOSE & CHEMICAL MNFG.	EASTERN & RUSSIAN TRADING CO., LD. XXII	Hough
	Co., LD., Calcium Carbide ix	EASTERN TRADING Co., LD., Toilet 24	Howai
	BRITISH DIAMALT CO., LD XXXIX BRITISH DYESTUFFS CORPORATION, LD. ii	ELLIS, J. E., LD., Pompeian Preps	JACKEL
	Bromage, G., & Co., Ess. Oils, &c 22	EVAN-WILLIAMS Co., LD., Shampoo 28	JEWSB
	Brooks, Peel & Co., LD., Machinery lv	EVANS SONS LESCHER & WEBB, LD.,	JOB BI
	Browning, The Wm., Co., LD xxxiv	Perfumery, &c	JOHNS
	BRYTSTELE INVENTIONS LD	FASSETT & JOHNSON Whirling Spran vivii	Drug
	Bull, D. W., Capsules Text	FASSETT & JOHNSON, Whirling Spray xlvii FENNINGS, A	JOHNS
	BURGE, WARREN & RIDGLEY, LD vliv	FENTIMAN, A. G., Mechanical Dentistry xliv	0 0 1111
	Transport, 1997 II.	Hillor Indianatelli Indianatelli Donnier y All	CITATE I LAN
-			
=	<u>=7</u> 8881111111111111111111111111111111111	onmanaramianismisminimisminiminimini	manim
=			

Denous Course & Co. To. Class
BURKETT, SHARP & Co., LD., Chemi-
cals, &c
BURNSIDE & Co., Eucalyptus xviii
BURROUGH, J., LD., Absolute Alcohol Text
BURROUGHS WELLCOME & Co.,
BURKETT, SHARP & CO., LD., Chemicals, &c. vi BURNSIDE & CO., Eucalyptus xviii BURROUGH, J., LD., Absolute Alcohol Text BURROUGHS WELLCOME & CO., Bismuth Salts
Bush, W. J., & Co., Ld., Perfumery 25
BUSH, BEACH & GENT INC, Chemicols 'viii
CADBURY BROS., Cocoa Cover
CALLARD & Co., Vitmar x1
CALNAN W H & Co. Pertumera 4
CARMICHAEL F J & CO Camomiles vi
CABBURY BROS., Cocoa
CAPPUDAS A & E Toilet AD
CARTER P F In Photo Albume luiii
CARRIER, IL. H., ID., I hoto Hound IVIII
Canada I.a. December 100., 110., 110.
CEPHOS, LD., Proprietary xxviii CHEMICAL WORKS MADOERY, LD., Male
CHEMICAL WORKS MADOERI, LD., Maie
Fern Extract XXVIII
Fern Extract
CHIRIS, ANTOINE, LD., E88. Oils 25
CHRISTY, T., & Co., Shumpoo xliv
CLAYTON ANILINE Co., LD., Chemicals x
CLAYTON ANILINE Co., Ld., Chemicals x COLEMAN & Co., Wincarnis xlin
CONDULT, FRANK A
CONNELL, A., & Co., Toilet XXII
COOK, E., & Co., LD., Soaps 57
COOPER LABORATORY, Chemicals 1V
COOPER. SON & Co., Lp., Cachets xliv
CRAMPTON J. & Co. LD xlii
CROOKES' LARORATORIES XXXIII
CHYSON GERRARD & CO. LD. 19
CONTR. SON & CO., LD XIII CROOKES' LABORATORIES XXXIII CXSON, GERRARD & CO., LD 119 C.V.O. CHEMICAL WORKS, LD XXXV DE VILBISS CO., LD. Atomisers, &c. XIVII
Dr Virries Co Ln Atomisers &c vivii
DEARBORN, LD., Tollet Specialities 34 DEC OIL CO., LD., Petroleum Jelly xxxvi
Dee Ou Co In Petroleum Lellu vyvvi
DEPRETER, A. E., Brushes, &c
DEPRETER, A. E., Diusnes, ac 45
Dickeson, R., & Co., Descroon XIIV
Dols & Co., Lb., Volutaitse Flanner 2
DOUIN & JOUNEAU, Printers
DOWELL, J., & SONS, LD., Glassware 111
DUDLEY & Co., Cosh Tills
EASTERN & RUSSIAN TRADING CO., LD. XXII
EASTERN TRADING Co., LD., Toilet 24
ECROYD & Co., Home Dyes liv ELLIS, J. E., LD., Pompeian Preps
Ellis, J. E., Ld., Pompeian Preps 33
EVAN-WILLIAMS CO., LD., Shampoo. 26 EVAN-WILLIAMS CO., LD., Shampoo. 26 EVANS SONS LESCHER & WEBB, LD., Perfumery, &c. 15, Cover FASSETT & JOHNSON, Whirling Spray xlvii FENNINGS, A. lext FENTIMAN, A. G., Mechanical Dentistry xhv
EVANS SONS LESCHER & WEBB, LD.,
Perfumery, &c 13, Cover
FASSETT & JOHNSON, Whirling Spray xlvii
FENNINGS, A. Text
FENTIMAN, A. G. Mechanical Dentistry xliv
That is and the continue of th

•	3
١	FIELD, C. W., LD., Chemicals i FINK, F., & Co., Gums xlr
ı	FINK F & CO. Gums xlu
ı	FORD, SHAPLAND & Co., LD., Printing lin
ı	FORSHAW E. & SON Machinery
ı	FORSHAW, E., & SON, Machinery FOX, W.; & SONS, Health Salts, &c.
ı	. xxxviii, 1:
ı	EDUNDENTHEIL & Co. Cod Liver Oil
ı	FREUDENTHEIL & Co., Cod Liver Oil x FULFORD, C. E., LD., Zam-Buk
ı	FULLWOOD, R. J., & BLAND, Rennet xlv
ı	CIPDINED & Co. Queralle
	GARDINER & Co., Overalls x GEORGE, E. J., Stocktaking Col. Supp
ı	GIBBS, D. & W., LD., Toilet Soaps, &c. 3
	GIGNOUX FRERES & BARBEZAT XXI
ı	GILLARD GORDON, LD., Euculyptus xx
ı	GOODAN PARTION & CO Manta
	GOODALL, BACKHOUSE & Co., Manfg.
ı	Chemists
ı	GOWER, J., Books
	GRAESSFR-MONSANTO CHEMICAL WORKS,
	GRAESSFR-MONSANTO CHEMICAL WORKS,
ı	LD
	GREEFF, R. W., & Co., Chemicals 6,
	GRIMSLEY & Co., Machinery
ı	GUILDHALL CORR, PAPER CO XIVII
ı	HANCOCK'S LD., Sunaties XIV
	HARKER, C. R., STAGG & MORGAN, LD., Compressed Peppermints xi
	The man Pressed Pepperminus XI
·	HARWOOD BROS., Pipes xlvi
ı	HARLEY, T., Rat Poison lxi
ı	HARRISON, A., & SONS, Printing XXXVII HENRY, T. & W., Culcined Magnesia
ı	HENRY, 1. & W., Culcinea Magnesia V
ı	HERTZ & Co., Cod Liver Oil, &c. xxxvii
ı	HEYMANS, RENE, Douche Fittings xlv HILL Bros. (Mfg.), LD, Toilet Preps. 3
ı	HILL BROS. (Mig.), LD, 100et Freps. O
	HIND & LUND, LD., Machinery
١	HOFFMANN-LA ROCHE CHEMICAL WORKS LD., Alkaloids, &c x
١	HOGARTH RUBBER Co
	HOLLANDS DISTRIBUTE IN Fee Oils 9
١	HOLLANDS DISTILLERY, LD., ESS. Oils 2 HOLLANDSCHE MELKSUIKERFABRIEK XX
ı	HOLLIDAY, L. B., & Co, LD., Chemicals vii
ı	Horn Thompson & Co. Suliculia Acid
١	HOLT, THOMPSON & Co., Salicylic Acid in Hood, C. I., & Co., Ld., Medicines xxvi
	Horar Hoppeon & Co. In
ı	HOUGH, HOSEASON & CO, LD XX

Floor Polish liz [Continued overleaf.

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INDEX-cont.

JOSEPHS, PHILIP, & SONS, LD., Col. Supp. Jung Fratelli, Ess. Oils 20
KAY BROS., LD., Essence of Linseed xxvii
KENT, G. B., & Sons, LD., Brushes 42
KERFOOT, T., & Co., LD., Throat Pastilles
16, 17
KHAMBATA, J., & Co., Tartarie Acid ix
KNOV-WALEER T & CO. I.D. The
KNOX-WALKER, J., & Co., LD xliv
LACOSTE ET CIE, Dentifrice 26
LANE, C., & Sons, Chemicals xxii
LANE HALL, R., & Co., LD, Chemicals XX
LANG, JULES, & SON, Glassware 14
LANGHAM BROS., LD., Toilet Preps. 38, 39
LANKSHEAR, WICKSTEAD & Co., LD xiv
LATHROP, H. R & Co. Inc., Botanical
Druge
Drugs XXi
LAWRENCE, E., & Co, "Gets-it" xxi
LECONTE, R., & Co., Rubber Corks liii
Leicester Rubber Co., "Mend-a-Tear"
lviii
Tricumor Tipopimoping In Champion -11-

LICENSES & GENERAL INSURANCE CO., LD.
Col. Supp. Col. Supp.
LINARIS. LD, Toilet Preps. 30
LINTON, HUBBARD & ANDREW, Saccharia xiv
LLOYD, E., Safety Razors 1vi
LOFROUSE & SALTMER, LD., Floor Polish lix
LONABUE TRADING Co.. Essential Oils 20
LONGCROFT, H. M., & Co., LD. ... xxxviii
LUMEX, LD., Photographie 1x
MCMACHAELD, D. 123 LUMEX, L.D., Photographic lx
M'GLISHAN, D., Abdine xxxviii
MAGFARIAN, D., Abdine xxxviii
MAGFARIAN, J. F., & CO., Alkuloids xv
MAGNUS, MABEE & REYNARD INC., Ess. Oils 20
MALMBERG, K., Lanoline xxxiv
MAITINE MANUFACTRING CO., LD. 10
MARKT & CO. LONDON, LD., Sponges, 42
MARSDEN, CHARLES C. Col. Supp.
MARTIN & CO. Toilet Specialists xliv
MASON BROS. & CHAPMAN xlvii
MASON BROS. & CHAPMAN xlvii
MAW, S., SON & SONS, LD. 11
MAY & BAKER, LD. Chemicals Cover
MAYFAIR CHEMICAL CO., Vacuum Flasks lvii
MEADE-KING, ROBINSON & CO., LD. xxxiv
MEHA BROS., Drugs, &c. xxi
MEHN, C., & CO., Glassware xliv
MILLAR, A., & CO., LD., Quinine Wine xliii
MILLARD BROS. LD., Electric lvi
MILNER, CHEMICAL CO., Surgical Knives,
&c. Xvi Dander Col. L.

Morris, Little & Son, Ld. Sheep Dips, &c.	lvii
MURPHY, J. F., Antiphlogistine	
MYERS, LUMOS & Co., Combs, &c	. lii
· NASSAN, J., & Co, Toilet Requisites	
NEWBALL & MASON, Herb Extract	
ORANJE, LD., Essential Oils, &c	
OSBORNE, GARRETT & Co., LD., Toilet	
Preps	
P.A.T.A.	cviii

PAGE, CHAS., & CO, LD., Chemicals xii PAINE & CO., LD., Malt Extract 10 PARKE, DAVIS & CO., Cod Liver Oil Emul-

PARRE, DAVIS & CO., Stopfittings Vii
PARNALL & SONS, Shopfittings Ivii
PERKEN, SON & CO., L.D., Clinicals ... IX
PERRY & HOPE, L.D., Malt Extract XXXIX
PHARMACEUTICAL LANOLINE CO., Lanoline
XXXVI

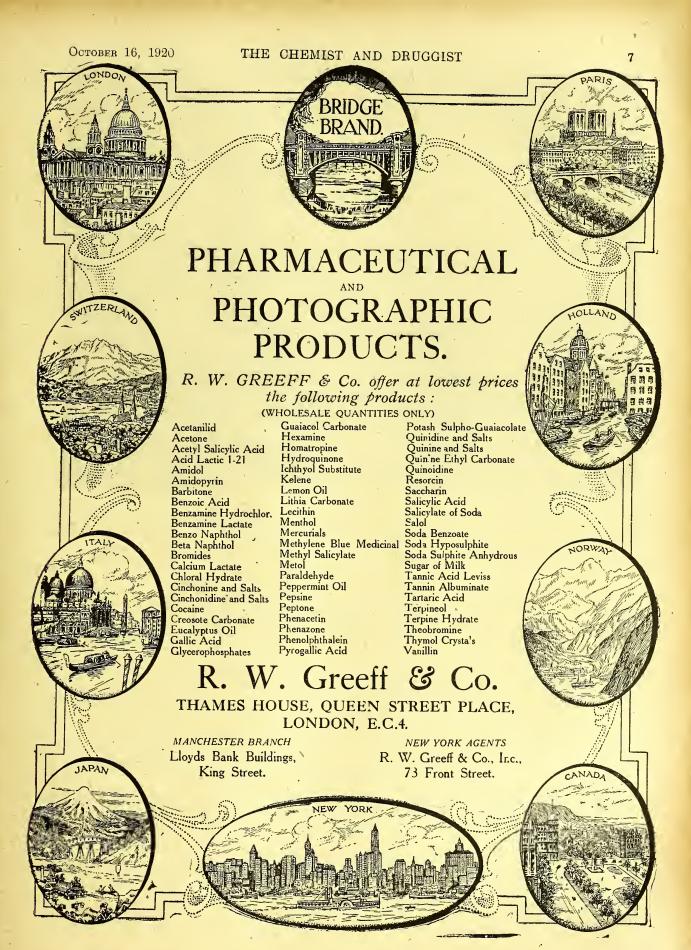
Queich, Henry C., & Co., Cutex Preparations

Annsom, W., & Son, Ld., Tinctures Cover Roul Freres, Chemicals, &c. ... xv
Raphaeis, Ld., Spectacles. &c. ... lxiv
Raymer, J. E., & Moss, Pat. Agents xliv
Raymer & Co., Ld., Toilet Preps. ... 31
Roberts' Capsule Stopper Co., Ld.,
Screw Caps. ... liii
Roberts' Patent Filling Machine Co. li
Robinson & Sons, Ld., Boaes. ... 1
Roques, Ferdinand, Alkaloids, Cacodylates. ... xxiii
Rose, J. L., Pyrogalic Acid ... xiii
Rose, J. L., Pyrogalic Acid ... xxiii
Royal Pharmaceutical Co., Ld. ... xxiii
Royal Co., Ld., & Co., Chemicals ... xxiii
Royal Pharmaceutical Co., Ld. ... xxiii
Royal Co., Ld., D., Bottles ... 28
Rudduck & Co. ... Col. Supp.
Sanacen Co., Ld., Nerve Food ... 9
Sanitas Co., Ld., Disinfectants ... Text
Schutze, F., & Co., Ld., Puffs ... 24
Scurr, C. A., Correspondence, Course
Liviii, Ix
Scurr, H. W., Manicure ... xliv

Taylor, H. A. & D., Ld., Malt Extract, &c. 8
Tennant, C., & Co., Ld., Chemicals iii
Texalo Mangg. Co., Home Dyes lt
Therappeutic Foods Co. xt
Thornley, S., Ld., Methyl. Spirit xxxvi
Timpson, John, & Co., Ld., Baby Powder 34
Titterfon & Howard, Brushware lvi
Toingco Paper Handbergehees lv
Toingco Paper Handbergehees lv
Tomlinson & Hayward Text
Tooms, A., & Co., Capping Skins lv
Transcontinental Agencies, Ld. xliit
Turner Bros. Asbestos Co., Ld. li
Veneeta Ld., Coll. Tubes liv
Verrereis de Scailmont, Glassware liv
Viscose Co., Ld., Bottle Cappings liit
Vitamogen, Ld., Invalids' Food xl
Waide, Thos., & Sons, Chemists' Printing

WIGGLESWORTH, LD., Cocoanut Oil Sham-WIGGLESWORTE, LD., Cocounut Oil Shampoo Cover Wikkinson Citlery Co., LD. lxi Williams Bros. & Co., Colours xxxii Williams Bros. & Co., Colours xxxii Williams Bros. Sundriesmen 24 Willis, Low & Drufff, Perfume Brick 28 Williams, Fronds Williams, Foods Time Company Control of Control of





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No. 470.

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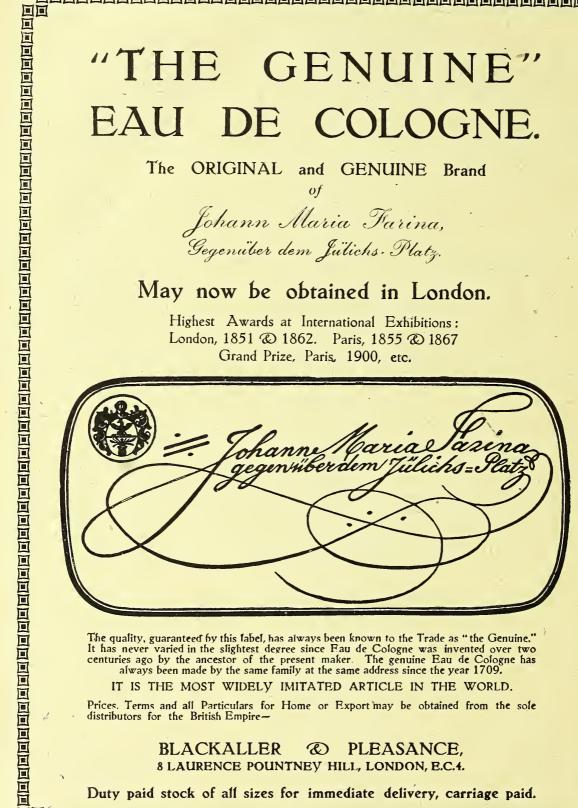
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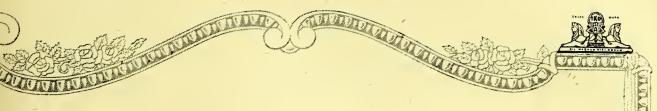
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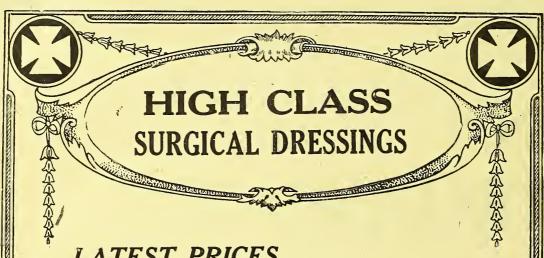
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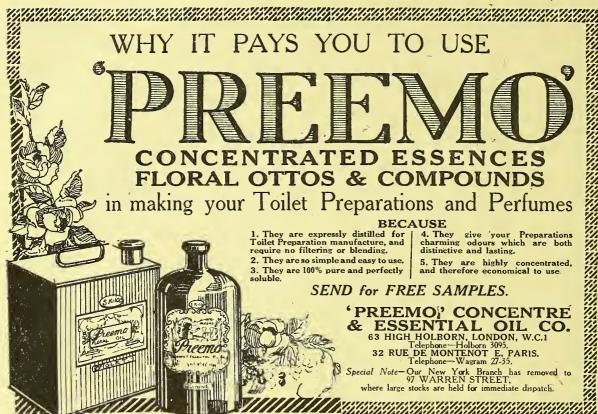
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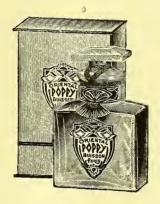
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Wholesale Retail ⁵ 3/- each. C3 **24**/- per doz. CI42/-5/3 C_2 80/-10/-BONUS TERMS ON APPLICATION.

Sole Proprietors :-

W. J. Bush & Co. Ltd.

ASH GROVE, HACKNEY, E.8.

The Perfect Paste with the Pleasant Flavour.



Dental Paste

A Perfect Dentifrice. Pleasant to the taste. Profitable to the Retailer. Retail Price, 7¹d. and 1/3.

Window display terms on application.

ANGLODOL, LTD., BERKHAMSTED.

Telephone: BERKHAMSTED 138.

Cables and Telegrams: "ANGLODOL BERKHAMSTED."

Taxed as a Medicine

Because of its Medicinal properties every bottle of

DENTIFRICE

has been stamped under the Medicine Stamp Actwithout increase in Price to the Retailer.

This delightfully refreshing and antiseptic liquid dentifrice gives a pearly whiteness to the teeth and is highly recommended by many Doctors and Dentists as the best medium for the prevention, treatment and cure of **PYORRHŒA**.

Retail 3/- per Bottle (including 6d. Government Stamp).

Representing an actual reduction in price. LIBERAL DISCOUNT TO THE TRADE. ATTRACTIVE SHOWCARDS SUPPLIED.

Wholesale and Export-

123a Borough High Street, London, S.E.1. Telephone: Hop 1789.

ARE YOU STOCKING



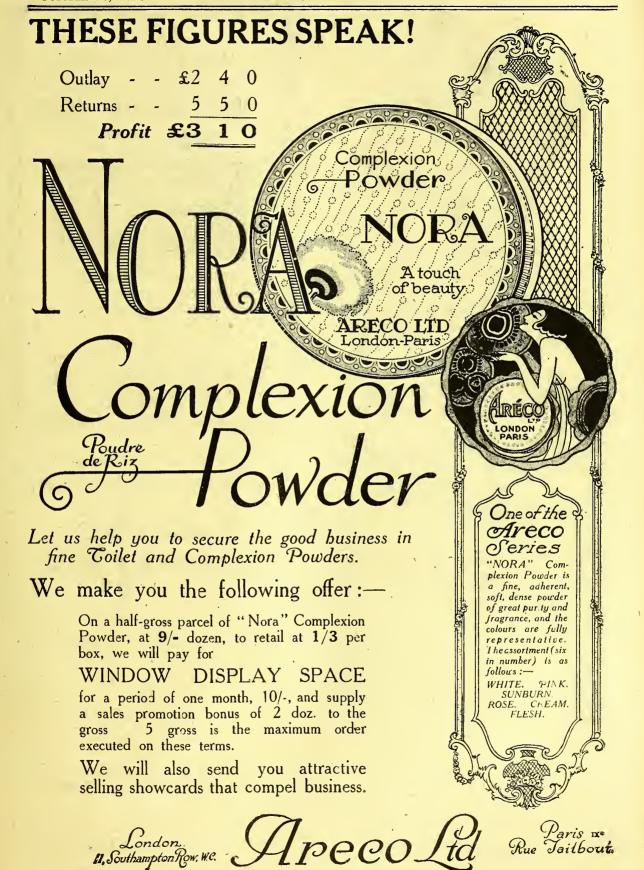
3 Good Sellers

- "Pyrea" Astringent Lotion
- "Pyrea" Tooth Cream (Large)... 1/6
- "Pyrea" " Powder 1/6

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Henroa. Stampoo

Your Gustomers will insist on the

Evan Williams HENNA

SHAMPOO

having been taught by experience. Are you ready to meet their demands? Stock moves freely at a handsome profit.

Full particulars are included in The SHAMPOO SALESMAN, which is sent free on request.

The EVAN WILLIAMS CO., LTD., 18 & 18a, Onle St., Foley St., London, W.1.

SALES ALWAYS INCREASING.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH. LASTING & FRAGRANT.



FOR LINEN CUPBOARD AND WARDROBE.

On the P.A.T.A. Retail Price 6d.

WANDA TOILET PUMMICE. WANDA NAIL POLISH. WANDA ONE-DROP PERFUME.

Of the Makers:

WILLIS, LOW & DPUIFF, LTD., 33 Percy St., London, W.1.

AND ALL WHOLESALERS.

WE MAKE IN ENGLAND

GLASS BOTTLES



WE import from our special works in France and Belgium all kinds suitable for Chemists, Perfumers, Essence Manufecturers and all kindred trades. We are in a position to give prompt deliveries of reasonable quantities in a reasonable time. Prices on application.

STOCKS OF VARIOUS SHAPES & SIZES.

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Geo. G. Forsyth,

28 MARTIN LANE, CANNON STREET. LONDON, E.C. 4.

Telegrams-"Sennock, Cannon, London."
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C. DAMSCHINSKY'S

AMERICAN LIQUID DYE.

Single Preparation for the Hair and Beard.

MADE IN
FIVE NATURAL SHADES,
BLONDE, LIGHT BROWN,
BROWN, DARK BROWN,
AND BLACK.

2/- Size 15/- per doz. net.

3/- 22/- 22/-



This excellent Dye has an enormous Sale all over the World.

SIMPLE TO USE.

WILL DYE RED, GREY OR FADED HAIR TO THE DESIRED SHADE IN A FEW MINUTES.

IT IS NOT A BLEACH.

WILL NOT DYE DARK HAIR LIGHTER.

From all Wholesale Houses or direct from sole British Agents:

OSBORNE, GARRETT & CO., LIMITED,

LONDON, BIRMINGHAM AND GLASGOW.



PROPRIETORS OF

THE CELEBRATED "OGEE" BRAND OF GREASE PAINTS,

AND THEATRICAL PERFUMERY.

OSBORNE, GARRETT & CO., LIMITED, BIRMINGHAM. LONDON, W. GLASGOW.

The Biggest Value and Best Paying Hair Preparation on the Market.

With orders for Three Dozen Bottles of SILKODONO (either size), and on the clear understanding that you will give us a good Window or Counter Display, we will send One Dozen Bottles absolutely FREE. With orders for One Dozen only, we will send Two Bottles FREE. WHOLESALE TERMS:

2/6 size - 20/- per doz. 4/6 size - 36/- per doz.

SHOWCARDS, DUMMY CARTONS and BOOKLETS FREE.

The demand for SILKODONO grows daily, and the public are asking for it in rapidly increasing numbers—the result of our big Free Sample Campaign. You can only benefit by this rush for SILKODONO by putting it in your Window or on your Counter. Send your trial order to-day.

Manufacturers: SILK'S TOILET CO., Red Lion St., Holborn, London, W.C.1

Telephone: Holborn 3095,

Telegrams: 'Silporanob, Holb., London,'

Jackel's Cream



Established 1883.

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"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a idressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy. 不识形形形形形

Prices for Wholesale and Export Houses on application.

Jackel et Cie (of Paris) Ltd. Sauchiehall Street GLASGOW

To Satisfy your Customers Is to Increase your Business

LINARIS

TOU FT

- (1) Give absolute satisfaction-Guaranteed
- (2) Are prepared from the finest Drugs obtainable.
- (3) Show splendid profits to the Retailer.
- (4) Invariably bring repeat orders.
- (5) Are beautifully packed in Opal-topped Jars and large golden boxes tied with purple ribbon. Make a splendid counter show.

LINARIS Vanishing Cream

LINARIS Bath Powder

LINARIS Henna Shampoo Powder

LINARIS Camomile Shampoo Powder

LINARIS Massage Cream

LINARIS Tonic Cream

LINARIS Beauty Cream

LINARIS Face Powders

Send direct to

LINARIS TOILET PREPARATIONS (Dept. X)

31 Westbourne Grove, London, W.2



Carriage paid on all orders over £5



CRYSTALLISED CREAM 2/3 Trade Mark attached to each bottle.

WARANTAN KANTAN KANT

May we

send you, free of charge, a bottle of any one of our new series of Toilet Preparations?

An illustration would not do justice to the attractiveness and finish of these preparations, and anything we said about them would not be half so convincing as an ocular demonstration. Just write on a postcard: "Your offer 'C. & D.' Oct. 16, accepted," and by return we will send you a bottle of any one of the series, together with full particulars.

The series consists of Bay Rum, Toilet Paraffin, Brilliantine, Bay Rum and Cantharides, Hair Cream and Eau de Quinine. Uniformly labelled and finished, packed in half-dozen show outers.

RAYMET & CO. LTD. 507/509 Harrow Road, London, W. 10.

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THE CHEMIST AND DRUGGIST

OCTOBER 16, 1920

DRUGGIST

OCTOBER 18, 1920

DRUGGIST

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KEENOLIA

MADE UP IN TWO SIZES:

4 oz. retails at . . . 1/3

Attractive Showcards supplied GRATIS.

From all Wholesalers, or direct from Manufacturers.

The . "CASSON BRAND"

COLD CREAM LANOLINE LAVENDER ICE



THE

WESTBOURNE GROVE, LONDON, W. 2. Telephones: Park, 2884 & 3568.

Jewsbury & Brown's

MANCHESTER,

Non-alcoholic Cordials

Dental Preparations

WHOLESALE AGENTS:

For London, Home, Eastern and Western Counties ROBERT W. PHILLIPS, Ltd.,

Craven House, Kingsway, LONDON, W.C. 2.

For Scotland:

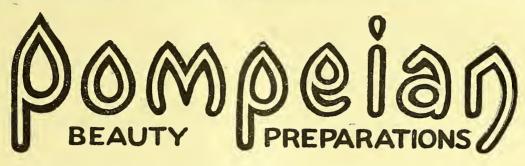
KERR, PATON & CO., 217 St. Vincent Street, GLASGOW.

For South and Mid-Wales:

THE STRETTON HILLS MINERAL

WATER CO.,

CHURCH STRETTON, Shropshire.



The Pompeian Campaign

OU have had a foretaste of the Pompeian Fair Trade Policy—Quality of products, good trade profits, fair trading terms and generous advertising are its leading features.

You have been asked not to buy until public demand is created by the Pompeian Advertising Campaign. This campaign opens with a full-page advertisement in the Sunday Pictorial on October 17th, and a front page of the Daily Mail on October 23rd; the combined circulation of which two papers alone is four millions. The initial advertisements will be supplemented by frequent and persistent large space announcements in these and other strong sales-pulling media.

The immediate effect of this powerful advertising, will be a brisk demand for Pompeian Preparations. Therefore, we urge you—be ready to supply your share of the demand. Send in your order to-day, that you may get your consignment in time.

> NOTE.—Go easy for a little while in ordering Pompeian Massage Cream, Pompeian Night Cream, and Pompeian Fragrance. Excellent productions all, but not yet being extensively advertised. Order as much as you like of Pompeian Beauty Powder, Pompeian Bloom and Pompeian Day Cream. The advertising of these will help you make quick turnovers.

J. E. ELLIS, LTD. (Sole Agents in British Isles for Pompeian Co., of Cleveland, Ohio), Wellington Street, LEEDS.

Pompeian Beauty Powder.

A high-class face powder— £ s. d. delightfully perfumed ... 1 1 0 2 6

Pompeian Day Cream (Vanishing).

White and pure, especially suited for oily skins. Attractively perfumed ... 1 1 0 2 6

Pompeian Bloom.

A rouge in a hard cake (boxed) with puff—light, medium and dark 1 1 0 2 6

Note exceptional PROFIT of 43% on outlay; 30% on sales plus extra 5%-discount for £5 upwards.

Per Doz. Retail Price, A pink cream for cleansing and £ s. d. s. d. massaging the skin ... Small 1 1 0 2 6

Do. do, Medium 1 12 0 3 19

Do. do, Medium 1 12 0 3 19

Do. do. Small Jar 16 1 1 11

Do. do Large 2 2 0 5 0

Pompeian Night Cream.

A perfected cold cream ... Tubes 12 7 1 6

Do. do. Small Jar 16 1 1 11

Do. do Large Jar 1 12 2 3 10

Pompeian Fragrance.

A talcum powder with a delightful odour 10 6 1 3

Overstocks gladly reduced.

P.A.T.A.

B B

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

			Price per dos. to Retailer.	Selling Price
PILENTA SOA	AP	-	10/-	1/-
PROLACTUM For the lips.	-	-	10/-	1/-
PARSIDIUM For wrinkles.	JEL	LY	10/-	1/-
ALLACITE of			22/6	2/6
BORANIUM	BL(osson	¹ 22/6	2/6
A hair tonic. CLEMINITE		-	22/6	2/6
For a face lotion.	VI -	•	22/6	2/6
For a face tint. PERGOL =			22/6	2/6
A deodorant. STALLAX =	_		22/6	2/6
For a shampoo. JETTALINE	_	_	31/6	3/6
For clearing the skin.	-	-		
PHEMINOL A depilatory.	-	-	36/-	4/-
MENNALINE For the eyelashes.	-	-	36/-	4/-
MERCOLIZE	D W	AX	31/6	3/6
STYMOL - For oily complexions:	and bla	ckheads	36/-	4/-
BARSYDE Dandruff eradicator.	-	-	22/6	2/6
TAMMALITE For grey or faded hai	20	•	22/6	2/6
LIQUID PER(To check excessive p	GOL	=	31/6	3/6
BICROLIUM For whitening the ha		=	22/6	2/6
HARAPOSA	nds.	•	22/6	2/6
Nut oil shampoo.				

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

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SOUTH AFRICA:
LENNON & CO., Ltd. (Cope Town)
SIVE BROS. & KARNOVSKY, Ltd. (Johnnesburg)

PIA:

KEMP & CO., Ltd. (Bombay)

THE INTERNATIONAL TRADING CO., Princess Street (Bombay)

R. MACLURE (Madras)

SMITH. STAMISTREET & CO. (Calcutta).

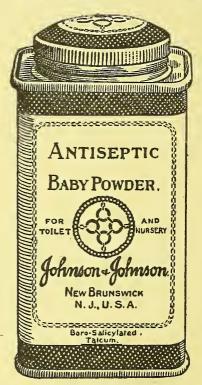
MEHTA BROS. (Calcutta)

JAMNADAS BROS. (Bombay)

NEW ZEALAND: SHARLAND & CO., Ltd. (Auckland & Wellington)

SOUTH AMERICA:
DEARBORN, Ltd., Calla Salta 264, Buenos Alres.

SOLD THE D OVER.



Antiseptic TOILET & BABY POWDER

JOHNSON & JOHNSON Manufacture. British

Made from the Best Talcums and Delicately Perfumed.

Bonus given for order of 2 gross and window display.

For particulars apply to—

JOHN TIMPSON & Co., Ltd. 104 Golden Lane -

PERFUMERY of DISTINCTION

FROM THE FAMOUS FRENCH HOUSE

PARFUMERIE D'ORSAY

Chemists who are looking for high-class goods which they can recommend with confidence should take note of the following:—

Finolette (10/6), Chevalier D'Orsay (11/7) Chypre D'Orsay (8/3), Rose D'Orsay (9/2) and Poudre D'Or (2/-)

the well-known Parisian Face Powder in various perfumes.

Large stocks are kept in London and can be delivered at once.

J. NASSAN & CO., BASINGHALL STREET, LONDON, E.C. 2.

Phone: Central 8799,

PRODUCTS OF

Parfumerie LA PERLE, PARIS.

Cold Cream Rose

Wholesale 30/- per doz.

Retail 4/6.



Poudre de Perles

Fines.

Wholesale 30/- per doz. Retail 4/6

Wholesale Houses already stock them, and sales have greatly increased. Many customers will not use any other powder than Bardin's.—It will pay you to stock them.

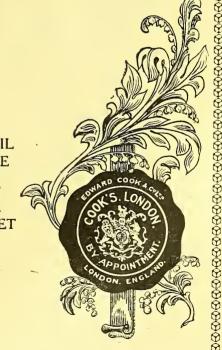
SOLE J. NASSAN & CO., BASINGHALL ST., LONDON, E.C. 2.

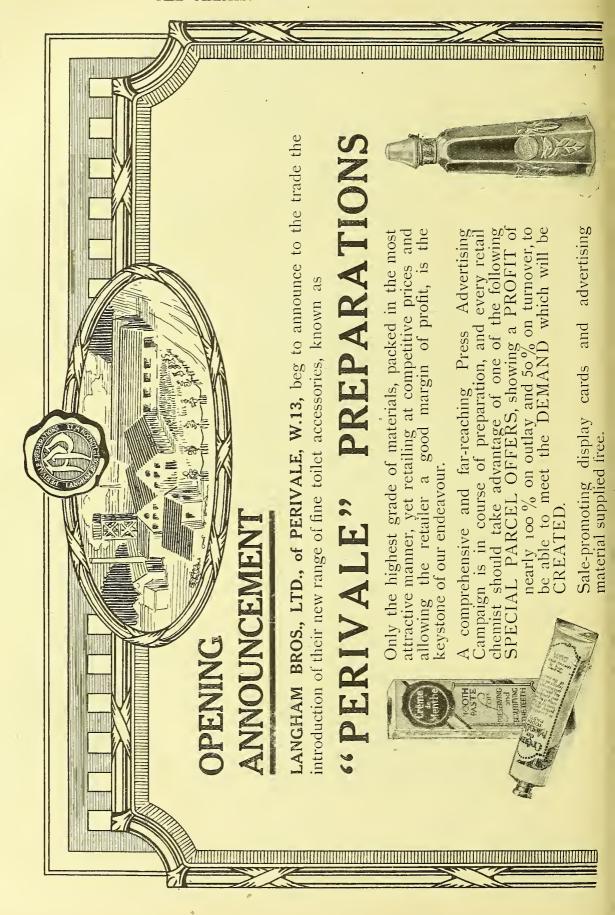
Phone: Central 8799.

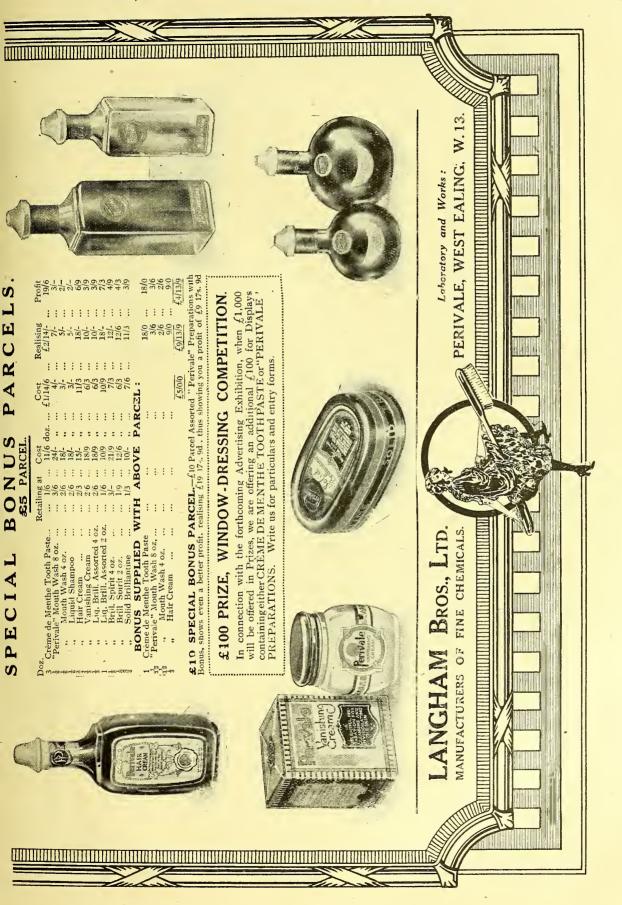












A. BOURJOIS & Cie, Ltd. 66 CARTER LANE LONDON, E.C. 4.

Please note that the prices of

Poudre de Riz de Java (Bourjois)

are as under:

	2/- 9	ize.	No. 45	1/3	size.	No.	49	5
1	doz.	es	16 /- per doz.	1 doz.	-	11/- p	oer	doz.
6	77	60	15/9 ,,	6 ,,		-		
12	99	-	15/6 ,,	12 ,,				

The P.A.T.A prices for Java Powder have been increased to 2/- and 1/3 per box.

May 1, 1920,

No. 495 supplied in the United Kingdom only.

IMPORTANT NOTICE.

The Retail Price of Enolin Tooth Paste & Powder now is 1/6 & 10d. per tube. POWDER 1/3 & 7¹d. per tin.

Special Cash Allowance for Window Displays.

Write for new terms and particulars of this largely advertised proprietary to "Sales" Department.

A. & E. CARRERAS, Ltd., 207 King St., Hammersmith, W.6

Sole Export Agents:

PATTINSON & MACKIE, Ltd., Albion House, 59 New Oxford St., London, W.C.1







TRADE SLUMP mmmm

Not so, if you stock the right goods!

Therefore, favour us with a visit or write, when our agents will submit you at once

SHAVING BRUSHES (anthrax-free)
HAIR BRUSHES
BABY BRUSHES
COMB-CLEANING BRUSHES
TOOTH BRUSHES
BONE NAIL BRUSHES
COMBS of any description

Manicure Sets and Nail Polishers, Trimmers, Files, Tweezers (in Ivory, Ebony or Bone).

HAND MIRRORS EBONY, NICKEL
Hypodermic Syringes, Camel Hair Pencils and Mops.

Wholesale and Export only supplied.

A. E. DEPRETER 24 Holborn
Telephone: Gelegrams Holborn 3182. "Aedecreton, Smith, London"

G. B. KENT & SONS, LTD.

Are known the World over as the Largest Manufacturers of

> EST RITISH RUSHES

Please write for full Particulars to-

Farringdon Road, E.C. 1.

The BRYTSTELE RA

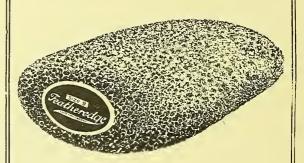
For SAFETY RAZORS.

Outfits: Price 3/6 each: 32/- doz. Solution only: 4-oz. Bottle, 1/6 each; 14/- doz.
,, 10-oz. Bottle, 3/- each; 28/- doz. Orders value £2, carriage paid, England & Wales.

Brytstele Inventions, Limited, 26 Horfield Road, BRISTOL.



RUBBER SPONCES



Are durable and do not harden. When used with soap, they make a delightful lather.

> Obtainable of all Wholesale **Druggists' Sundries Houses**

MARKT & Co., LONDON, LTD.

American Merchants

— SOLE IMPORTERS ———

98-100 CLERKENWELL ROAD, LONDON, E.C. 1.

CHEMICAL AND PHYSICAL UNIFORMITY

So essential in dispensing Bismuth mixtures is secured by using

LLCOME BISMUTH Salts

They are of the same exceptional lightness-always.

Consequently the deposit in a mixture never varies in volume or appearance.

A given weight always goes into the same size cachet.

Every Dispensing Department should have

LLCOME Brand Bismuth Carbonate, B.P.

LLCOME Bismuth Salicylate, B.P.

LCOME BRAND Bismuth Subnitrate, B.P.

Prices on application



WARRICK BROTHERS, LIMITED

CHOCELLÆ.

PULVELLÆ.

FLEXOIDS.

FLEXETTES.

FIZZZLETS. (Sustended)

REFRESHLETS.

EXTRAITS AUX FLEURS.

ESSENTIAL OILS.

POMADES (FLORAL).

ROSE WATER.

SACHETS.

PERFUMES.

SYNTHOROSE.

CACHOUS.

FRAGRETS. NORETS.

PERLES.

PASTIL'ES.

LOZENGES.

ORIFORM LOZENGES.

WALMSLEY CLEANING PADS.

CAPSULES.

NOSTRONES.

COMPRESSED TABLETS.

AMULETS.

POT POURRI (CINET'S)

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TOILET SOAPS.

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CINET'S GOODS.

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OTTOLETTES.

ZOMBS.

CHANTICLEER.

LUBRILAX.

THE "FLAG"

EAU DE COLOGNE.

Also Special Agents for JELLOIDS.
IRON JELLOIDS.
DULCILAX.

6, Nile Street, City Road, London, N.1.

Telephone: CLERKENWELL 2452.

Telegrams: "WARRICKERS, HOX, LONDON."

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A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in the Overseas Dominions. Societies in the Overseas Dominions.

Subscription Rates.

of the world, including a copy of The Chemist and Druggist Diary.

Subscriptions may begin with the first issue of any month. Single Copy od. post free; Diary, 55. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

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Prix de la bonnement annuel; le journal une fois par semaine, et l'agenda
une fois par an, 20s., franco
Precio de suscripción anual; el periódico una vez por semana, y el agenda
una vez por año 20ch., franco.

Torms for Advertising may be obtained on application to the Publisher HEAD OFFICE: 42 CANNON STREET, LONDON, E.G. 4 Telegrams: "Chemicus, Cannon, London," Telephone: Central 3617 (three lines) BRANCH OFFICES: MELBOURNE AND SYDNEY, AUSTRALIA

CONTENTS. Series 2125. Vol. 93. No. 16. PAGE PAGE Liverpool School of Phar-macy 50 egal Reports Bankruptcy Report 66 macy 52 Cocca-nut Shampoos ... 52 Coming Events 49 Concentrated Developer... 67 Marriages New Companies and Com-Correspondence: Personalities 59 Letters Subscribers' rersonanties 57 Pharmaceutical Optics 67 Poisonings 49 Profiteering Act 51 Proprietary Medicines Bill: Deaths 56 Editorial Articles: Chemists' Meetings ... Select Committee's Recommendations55 Retrospect 76 Reviews of Books 64 Scottish News 48 Suggested Teucer Combination 63 English News 45 Festivities 64 Trade Notes 58 Gazette 66 Information Department 58 Trade Report 68 Wills Insurance Act Dispensing 66 57 Irish News 48 Winter Session 65

Business Changes.

MR. W. T. HALL, chemist and druggist, St. Nicholas Street, Truro, has removed his business to River Street.

DANIEL YATES, LTD., chemists, Darwen Street, Blackburn, are removing to more convenient premises in the same thoroughfare.

CHAS. L. HUISKING, LTD., drug and chemical importers and exporters, have secured more convenient and commodious offices at 74 Great Tower Street, London, E.C. 3.

PARKE'S DRUG STORES, LTD., are shortly opening two branches, one at Ashbourne Parade, Temple Fortune, N.W., and the other at High Street, Watford.

SQUIRE & Co., chemists, Birmingham, have acquired the business of Mr. D. E. Lewis, chemist and druggist, Ceridwen Street, Mardy, and the Crown Poultry Spice Works at the same address.

H. MAYER SENIOR, LTD., vanilla and general colonial produce importers and exporters, have removed their offices and vanilla showrooms to 42 Trinity Square, E.C. 3. Their new telephone number is Avenue 4523.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

British-Austrian Debts.

As a result of discussions between the Board of Trade and the Austrian Minister of Finance, a memorandum on the subject of the settlement of pre-war debts has been communicated to the Austrian Government by his Majesty's Representative at Vienna. The following is a summary of the principal conditions which it set forth: The British Clearing Office will, in certain circumstances, be prepared to consider the applications made before March 31, 1921, for the release of property, rights, and interest with a view to the settlement of debts by amicable arrangement. The British Government expects that the Austrian Government will use its best endeavours to collect the debts due to British nationals. This requirement applies, in the case of debts originally payable in kronen, only to the original amount in kronen of such debts with interest thereon. The Austrian Clearing Office shall pay to the British Clearing Office not later than March 31 and September 30 in each year, beginning with the year 1921, the sterling value of the amounts collected from Austrian nationals during the previous six months. Such payments shall continue until the balance against Austria, with simple interest at 5 per cent., shall have been fully met. A note dated October 2 has been received from the Austrian Secretary of State for Foreign Affairs accepting the conditions, with an expression of thanks.

The Future of Wages and Prices.

The situation in many industries at the present moment is the cause of some anxiety among the public, and discussions are being raised as to underlying economic reasons and practicable remedies. In view of the fact that many conflicting opinions are being expressed, the Federation of British Industries has drawn up a statement on the "Future of Wages and Prices," pointing the way to the only course which, in its opinion, can lead to the solution of the difficulties which beset the nation. The chief heads of the statement comprise the effect of the war on prices, "real" value of wages, reduction of prices (two alternatives), the illusion of Government price fixing, rapid deflation impossible, the importance of increased output, the division of the product of industry, and world exhaustion. The F.B.I. regard the only effective means by which prices can be reduced and the real wages of labour improved to be by working the existing instruments of production at their maximum pressure, and so increasing as rapidly as possible the mass of commodities to be bought. Any attempt on the part of the workers to improve their conditions by ca' canny and similar methods not only fails in its object, but, by causing a rise in prices, actually reduces the purchasing power of their present wages. An increase in money wages may temporarily aller this state of affairs, but it cannot affect the final result. It is true that the workers in one trade may secure an improvement in their own position at the expense of the rest of the community, but if the wages in all trades are increased, this merely results in the re-establishment of the old value of wages at a correspondingly increased level of prices.

Contracts.

The following tenders have been accepted by the bodies

Admiralty.—Burgoyne, Burbidges Co., Ltd., drugs, etc.

Chelmsford Hospital Board.—May, Roberts & Co., Ltd., medical supplies.

Skipton Guardians.-Mr. W. H. Green, Ph.C., drugs,

Merthyr Tydfil Guardians.-Mr. V. A. Wills, chemist and druggist, drugs, etc.

CC

Public Analysts' Reports.

The Essex County analyst (Dr. Bernard Dyer) reports that two recently analysed samples of self-raising flour contained excess of calcium sulphate, due in each case to the use of a cream-of-tartar substitute. The vendor of the flour destroyed the remainder of his stock. [The Local Government Board recommends that calcium acid phosphate used in baking-powder should contain not more than 10 per cent. of calcium sulphate.—Editor.]

The annual report of the Salford borough analyst (Mr. G. D. Elsdon, B.Sc., F.I.C.), covering the year 1919, gives particulars of investigations of samples taken under the Sale of Food and Drugs Acts. The percentage of adulteration in the 1,234 samples was 8.8, a high figure attributed partly to adulterated milk and partly to borax contaminated with arsenic. Three samples of soda water were returned as adulterated on account of the absence of added sodium bicarbonate. The matter was reported to the local association of mineral-water manufacturers. and as the result of a correspondence the council of the association has given it as their opinion that soda water should contain 5 grains of sodium bicarbonate per 10-oz. bottle, and have instructed their members to this effect. One of the four samples of ammoniated tincture of quinine, an informal sample, was found to be deficient of 75 per cent. of the correct quantity of quinine. A subsequent formal sample was labelled "Sweet Essence of Quinine," and had practically the same composition. A large quantity of cane sugar was present in both cases. As there is no standard for "Sweet Essence of Quinine" no proceedings could be instituted, but the case was reported to the local Pharmacists' Association, which took action in the matter. Of the thirty-eight samples of borax, thirty-one, or 81.6 per cent., were returned as adulterated on account of contamination with arsenic, the amounts found varying from 10 to 250 parts per million. This matter was reported to the Local Government Board, which took action. Mr. Elsdon's report on samples of dispensed prescriptions is similar to the account given in the paper prepared by him, jointly with Mr. F. A. Anderson, for the recent British Pharmaceutical Conference (C. & D., July 24, p. 93).

Philip's "Standard" Retail Price List.

The following are among the alterations and additions in the current issue of Philip's "Standard" Retail Price List: Drugs.—Ac. citric. pulv., 8d. oz.; ac. tart. pulv., 6d. oz.; anthem. flor. exot., 3½d. oz.; camph. flor., 1s. 5d. oz.; camph., ½-oz. squares, 5d. each; conf. sennæ, 6d. oz.; crem. tart. pulv., 4½d. oz.; ext. casc. sag. liq., 5d. oz.; ext. malt. c. ol. morrhuæ, 1s. 4d. 8 oz.; glyc. thymol. co., B.P.C., 3d. oz.; hydrargyrum, 9d. oz.; hyd. ammon. chlor., 1s. 4d. oz.; hydrokinone, 1s. 3d. oz.; iridis rad. flor. pulv., 6d. oz.; lap. pum. pulv., No. 2, 1d. oz.; lin. camph., B.P., 6d. oz.; lin. camph. ammon. meth., 6d. oz.; mag. cit. effer., No. 1, 5d. oz.; menthol, 1s. drm.; ol. amygdal. Ang., 7d. oz.; ol. junip. "lign.," 1s. 1d. oz.; ol. limon., B.P., 1s. oz.; ol. sambuci vir., 3½d. oz.; pot. carb. coml., 3½d. oz.; pulv. glycyrrh. co., 3½d. oz.; sod. et pot. tart. pulv., 5d. oz.; spt. camph., 11d. oz.; syr. ferri iod., 7d. oz.; syr. ferri phosph. co., 4d. oz.; syr. ferri phosphatis c. quin. et strych., 5d. oz.; syr. glycerophos. co., 6d. oz.; syr. scillæ, 4d. oz.; syr. violæ, 4d. oz.; tinct. benzoin. co., 8d. oz.; tinct. camph. co., 6d. oz.; tinct. iodi decol., 9d. oz.; tinct. myrrh., 9d. oz.; tinct. opii, 8d. oz.; tr. quin. ammon., 7d. oz. Goods Soldb by Pint, etc.—Ol. morrhuæ Nov. opt., 3s. 7d. pt.; ol. olivæ sub., 5s. 10d. pt.; ol. sesami, 3s. 1d. pt. Packed Goods.—Castor oil, 2-oz. bot., 1s. ½d., 6-oz. bot., 1s. 3d.; chemical food, 3-oz. bot., 1s. ½d., 6-oz. bot., 1s. 3d.; chemical food, 3-oz. bot., 1s. ½d., 6-oz. bot., 1s. 6d. Compressed Tablets.—Ammon. quinine, 25, 1s. 1½d.; calomel, gr. i., 25, 7d.; phenacetine co., 25, 1s. 6½d.; quin. sulph., gr. ii., 25, 10½d. Capsules.—Castor oil, 10-min., 24, 1s.; copaiba, 10-min., 24, 1s. 5½d.; creosote, 1-min., 24, 1s.; copaiba, 10-min., 24, 1s. 5½d.; creosote, 1-min., 24, 1s.; copaiba, 10-min., 24, 1s. 5½d.; creosote, 1-min., 24, 1s.; copaiba, 10-min., 24, 1s.; cilla, boric, 6d. oz.; lint, boric, 6d. oz.; lint, lint distributed for care.

Window-dressing Competition.

The International Advertising Exhibition, which is to be held in November at Shepherd's Bush, is to include a window-dressing competition with prizes amounting to 1,000l. Competitors are to make window displays at their own business premises from November 15 to November 20. Of these whole-plate photographs are to be taken and sent to the exhibition office not later than November 22. All competing photographs, or a selection, will be exhibited at the International Advertising Exhibition from November 29 until December 4. exhibition is to be divided into two classes, and each class into two sections. The first or general class consists of displays of any merchandise the retailer sells in his shop, and the points of novelty, spectacular effect, and salesmanship will be judged in making the awards. The two sections of this class are for windows under and over ten feet wide, so as to give an equal opportunity to those who have only a small window to dress. The second class is for advertised or branded goods—i.e., the window must be devoted to a display of well-known advertised articles. Not more than five distinct lines of advertised articles may be shown, and the goods must be those stocked in the shop. There are two sections in this class as in the general class. The prizes in each of the four sections are (1st) 100l., (2nd) 50l., (3rd) 25l., and fifteen prizes of 5l. each. Each competing window has to show an announcement, which must include the words "International Advertising Exhibition at the White City, London, November 29 to December 4, 1920 (inclusive)." Competitors are charged a registration fee of 2s. 6d., which should be sent to the secretary, Window-dressing Competition, International Advertising Exhibition offices, 167 Strand, London, W.C. 2, when a booklet of conditions will be sent.

Unlawful Possession of Cocaine.

At Marlborough Street Police Court, on October 13, Elsie McMahon, described as a cinema artist, was sentenced to three months' imprisonment for being in unlawful possession of cocaine. When arrested, cocaine hydrochloride and heroin were found upon her.

At Marlborough Street Police Court, London, on October 11, Frederick Hauliback, charged on remand with being in unlawful possession of cocaine (C. & D., October 9, p. 67), was sentenced to three months' hard labour. A powder which had previously been mentioned in the case was now certified by a Government analyst to be cocaine hydrochloride.

At the same Court, on October 8, Max G. Rosenz, Little Goodge Street, W., described as a waiter, was charged with being in unlawful possession of cocaine, and with offering to supply and sell it to Nellie Harding. A police constable, giving evidence, said that on being arrested Rosenz put a "packet" in his mouth and swallowed it. On his room being searched, the packets containing the white powder were found. A remand was ordered.

At Westminster Police Court, on October 8, Frank (or Frederick) Murray, giving a hotel address, was charged, inter alia, with being in unlawful possession of cocaine. Mr. Muskett, who appeared for the prosecution, stated that after Murray's arrest a bunch of keys was found on him which opened a suit-case deposited by him at a hotel. A package was found inside, containing over 3 oz. of cocaine, and a letter addressed to the prisoner from the Palace Hotel, Brussels. It was headed "Instructions," and recommended an admixture of boric acid as an adulterant of the cocaine. Mr. Muskett said that among the instructions was the following passage: "It needs about five or six very discreet and very sober intermediaries to handle the 'peddling' part of the business. A fool, a chatterer, a drunkard, a gambler, a user of it, are no good as fellow-workers. . . The youngster written about yesterday is a very handy and bright young London street arab. He has worked in almost every restaurant and hotel in London . . . knows where to put his hand upon many useful people. He must be made extra, extra cunning, both for his own personal and others' safety." A remand was ordered.

Birmingham.

Pharmacists do not appear to have considered advertising in connection with the local horticultural shows.

Bogus 1l. Treasury notes are going the round. The head of St. George, the numbering, and the engraving of the Houses of Parliament are all defective.

A tipster's advertisement addressed to one pharmacist in the city was delivered at the address of another. The stone killed neither of the birds, it is understood.

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The capital for W. Canning & Co., manufacturing chemists, Great Hampton Street, is stated to have been over-subscribed to the extent of several thousands of pounds.

One-third of the children attending the municipal schools have received medical treatment during the past year. The number of ringworm cases, as the result of being treated by x-rays, has decreased considerably.

The local branch of the Commercial Travellers' Association proposes to acquire Vittoria Hotel, Corporation Street, and to conduct it, with the exception of weekends, exclusively in the interests of the Association's members.

Local pharmacy is rich in magisterial dignitaries, being represented on the Bench by Sir Thomas Barclay, Alderman F. C. Clayton, Mr. Alfred Southall (all of whom are pharmaceutical chemists), and Mrs. Barrow Cadbury, Mr. Southall's daughter.

Only a small number of pharmacists turned up at the luncheon given in honour of the President of the Pharmaceutical Society, when he visited the city on October 4, but Monday is supposed locally to be an awkward day for such functions.

There is a rumour that the Birmingham Pharmaceutical Association's library is to be removed from the corridor of the University Buildings to the Municipal Technical School. Whether the rumour is an intelligent anticipation or not will be made clear in due time.

The University, although ten Army huts have been equipped as physics and chemistry laboratories, is quite unable to provide benches for all would-be students. The senate suggests that practice should be gained in private laboratories in the neighbourhood. At a recent town's meeting in aid of the University fund Alderman Clayton, Ph.C., the vice-chancellor, announced that promises of 200,000? towards the 500.000? required had been received.

Leeds.

The chemical department of the University has been considerably enlarged, but is still too small to enable all applicants to be accepted. An appointments board has been established to advise students on the choice of a career.

The Leeds chamber of trade recently passed a resolution advocating greater economy in the use of the rate-payers' money and the support of business-men candidates at the forthcoming municipal elections, and also deprecating the extension of municipal trading.

Liverpool.

Mr. Harold Wyatt has commenced his new public duties as a justice of the peace.

Counterfeit half-crowns, dated 1918, a drachm light, and very badly milled, have been palmed off upon local pharmacists this week.

The Wallasey Chemists' Association, one of the most active in the district, is preparing an attractive programme for the winter session.

Thompson & Capper, Ltd., devote one of their Lord Street windows to a homoeopathic display, and the other to enlargements of photographic films by amateurs.

"Built for comfort rather than for speed" was the description given of a burly man who kept several more customers waiting at a local pharmacist's counter the other day. The "comfort," in these cases, is a very exclusive possession.

Mr. C. Hanson, Ph.C., who, owing to ill-health, sold his pharmacy in Aigburth Road some months ago to Mr. John Denerley, has recuperated, and is taking up *locum* work in and near Liverpool.

The Liverpool Chemists' Association proposes to include a dinner in its current social programme. A New Year's party for children, to be held at the Britannia Rooms, Cunard Building, is also suggested.

A suburban pharmacist, on being called upon by the income-tax authorities for confirmation of an estimate of the value of his stock, produced his fire-insurance policy, and this was accepted courteously.

Some falling off in the retail sale of perfumes and cosmetics is reported by down-town pharmacists. "Unemployment, due to strikes, is cutting off the supply of money for luxuries," says a chemist, and a draper confirms his statement.

The ex-Mayor and ex-Mayoress of Bootle (Dr. and Mrs. James Pearson) gave a reception, on October 12, at the Arcade Rooms, Liverpool, to inaugurate the winter session of the Liverpool and Yorkshire Society, of which Dr. Pearson is President.

Mr. A. T. T. Favard, who has been appointed to a position on the Colonial representative staff of Ayrton, Saunders & Co., Ltd., is sailing for East Africa on the s.s. Nevasa, with a full range of samples. Mr. Favard expects on completion of his East African trip to proceed to South Africa, where he will permanently take up his residence.

Members of the Lakcland party whose photographic group appeared in the C. & D. of October 9 (p. 76) have received congratulatory notes from distant friends who have read of the meeting of Lancashire pharmacists with Westmorland confreres. An account of the outing is given a conspicuous place in "The Westmorland Gazette" of October 9—from which it appears that the "Knights of the Pestle," as the "Gazette" calls them, made a great impression on the Lakelanders.

Some interesting obiter dicta have been let fall by speakers at the recent tuberculosis conference in Liverpool. Professor J. M. Beattie remarked that the sterilisation and pasteurisation of milk were not a guarantee against the removal of tubercle infection. The process was in its experimental stage, and could not be said to be a success on a commercial scale. Sir Robert Jones said that half of the cripple cases among which he practically spent his life were tubercular in character. Further, two-thirds of the infection in those tubercle cases was bovine in character. Dr. Dingwall Fordyce declared that the medical profession was not as well educated as it should be in the elements of child nurture. Dr. J. R. Leeson said that people had no business to drink milk. It was quite unnatural. He regarded the drinking of milk as one of the curses of civilisation.

Manchester.

Manchester chemists have learned with regret of the death of Mr. Robert T. Forbes, chemist, Castle Street, Stockport (C. & D., October 2, p. 63). He was keenly interested in pharmaceutical affairs, and used frequently to attend meetings and social functions of the Manchester Pharmaceutical Association.

By the death of Dr. Lloyd Roberts, a well-known physician and surgeon. Manchester has lost one of its most noted medical men. Pharmacists who have served their apprenticeship or been assistants in any of the city pharmacies will vividly remember his mannerisms. Pharmacy was represented at his funeral last week by Mr. A. E. H. Blackburn, Ph.C. (Mottershead & Co.), who is one of his executors.

Mr. J. Cleworth, President of the Manchester Pharmaceutical Association, was one of the fortunate recipients of an invitation to join Mr. John H. Robinson's party of chemists who "did" the Lake district (a feat which occupied seventeen hours) on September 28 (C. & D., October 9, p. 76). Mr. Cleworth's non-appearance in the photograph that we reproduced last week is accounted for by his being on the opposite side of the camera.

Sheffield.

Three deaths due to sleeping sickness have been reported in Sheffield during the week.

Mr. G. F. Leighton, chemist and druggist, Glossop Road, has had a sharp attack of pneumonia, but has passed the critical stage.

Payments received for clinic dispensing should be checked by chemists concerned. There is no official scrutiny, as there is with the Insurance scripts.

The University is reported to be purchasing the glassworks of P. T. Turner & Co., Ltd., Darnall Road. The sum of 20,000% is required in connection with the purchase.

Miscellaneous.

DRUG-TRADE DISPUTE.—A number of employees of Lysol, Ltd., Raynes Park, have been "locked out" owing to a dispute as to the employment of union labour. A notice in the factory stated that non-union labour only would be employed in future.

IN THE COURTS.—At East Ham Police Court, on October 12, Noaz Ali (18), described as a coal-trimmer, was fined 10l. for being in unlawful possession of $5\frac{1}{2}$ lb. of opium on board a ship in the Royal Albert Dock. The opium was confiscated.

SWIMMING TEAM RACE.—A swimming team race, the "P.D." Swimming Club (Parke, Davis & Co.) v. the "Heathfield" Swimming Club (Claudius Ash, Sons & Co., Ltd.), took place at the Marshall Street Baths, London, S.E., on October 7, and resulted in a win for the former team by about one second.

SUPPLY OF APPLIANCES TO DISABLED MEN.—The Minister of Pensions has issued an instruction to the effect that pensioners are to address applications for surgical and artificial appliances (other than artificial limbs), spectacles, dentures and dental treatment to their local War Pensions Committee, which will refer the case to the Regional Director instead of to the Ministry in London (see C. & D., August 14, p. 45).

Pharmacists' Prize Windows.—A window-dressing competition, organised recently in connection with Colgate's dental cream, resulted in the first prize being awarded to Mr. G. E. Marfit, chemist and druggist, Leicester. Consolation prizes were also awarded to Mr. Rex Blanchford, chemist and druggist, Wimbledon, London, S.W.; Mr. W. H. Grimshaw, chemist and druggist, Blackburn; Mr. T. W. Salmon, chemist and druggist, Stockton-on-Tees; S. Hirst & Son, chemists, Mossley; and Folkard & Co., chemists, York.

Fires.—The following outbreaks of fire have been recorded since our last report: The premises of the London Sand Blast Decorative Glass Works, Ltd., Gray's Inn Road, London, W.C. 1, were the scene, on October 8, of an outbreak of fire, which, however, was subdued before it had spread far.—A fire occurred on the premises of The British Drug Houses, Ltd., Graham Street, City Road, London, N. 1, on October 10. The outbreak, which is understood to have been due to the ignition of phosphorus, was soon extinguished, and the damage was slight.

Irish News.

Brevities.

The windows of the pharmacy of Mr. Thomas, Sawach Street, Cork, were damaged by rifle-fire in the recent ambush in that thoroughfare. On October 11 Mr. Thomas was arrested unexpectedly.

Mr. T. Stack, assistant with Mr. R. B. Woulfe, Ph.C., the Medical Hall, Abbeyfeale, co. Limerick, who was arrested by the military, has now been released. The Medical Hall was wrecked recently by uniformed men, and Mr. Woulfe has abandoned the premises.

Belfast.

Much sympathy is felt with Mr. G. F. Blair Elliott (Thompson & Blair, wholesale druggists, Corporation Street) on the death of his brother, Mr. Charles Blair, recently at Winnipeg, Canada. The late Mr. Blair served his apprenticeship in Enniskillen, and afterwards came to Belfast, where, for a number of years, he represented several wholesale firms. He afterwards emigrated to Cape Town, and on the outbreak of the Boer War was one of the first to volunteer for service. He went through the whole campaign, and on the cessation of hostilities returned to Belfast, and, later on, went to Canada.

Satisfaction is expressed in Northern drug circles at the result of the elections to the Pharmaceutical Council. The only disappointment is that Mr. Samuel Suffern, past President of the Chemists' and Druggists' Society of Ireland, who stood jointly with Mr. Fred Storey, the President, failed to secure election. With Mr. Storey on the Council the Chemists' and Druggists' Society of Ireland has a representative for the first time. Mr. J. Carroll Culbert, of the North Irish Pharmacists' Association and the Ulster Drug Trade Association, who headed the poll, has received numerous congratulations on his success. Mr. M. M'Donald, Belfast, who as an independent candidate made a good show, is a member of the Ulster Retail Drug Trade Association. The Northern representation has not been numerically increased, as, although Messi's. Culbert and Storey were elected, two of the old Northern members, Mr. William Doig (Belfast) and Mr. William Hanna, J.P. (Bangor), did not offer themselves for re-election. Mr. J. E. Connor, J.P. (Newry), the third Northern member, retained his seat.

Scottish News.

Brevities.

Mr. W. McLean, who served his apprenticeship in pharmacy at Grantown-on-Spey, has been appointed a staff captain in the Indian Army.

As the result of a conference, the doctors and chemists of Lanarkshire have arrived at a satisfactory settlement of their dispute $(C.\ \&\ D.)$, September 18, p. 52).

A fire occurred at the premises of Mr. G. Nicol, chemist and druggist, Stevenston, on October 8. The front of the shop was damaged and a quantity of chemicals destroyed.

There is a growing tendency for tradesmen of all kinds to dabble in P.F. and other medicines that can only be sold unstamped by pharmacists or those who have served a regular apprenticeship in pharmacy.

D. & W. Gibbs, Ltd., City Soap Works, London, E. 1, have appointed Mr. S. Wright as their representative for the East of Scotland. Mr. Wright's predecessor, Mr. Halliwell, has taken over a ground further west.

Mr. William W. Spence, chemist and druggist, Linlithgow, has again been elected deacon and treasurer of the Ancient Fraternity of Dyers of Linlithgow. This is the first occasion in the long history of the society that a "deacon" has been elected for a second consecutive three years.

Provost John Raffan, J.P., chemist and druggist, Stirling, has intimated his intention of resigning from the town council at the end of his official term. The Provost has held the offices of bailie and chief magistrate for three years each, and has been a member of the town council for twelve years.

Mr. Gilbert Dyet, chemist and druggist, Callander, was charged at Dunblane, on October 6, under the Spirits Act, 1880, with having sold to an officer of the Customs and Excise 4 oz. of tincture of iodine, in the preparation of which methylated spirit had been used. For the defence it was stated that Mr. Dyet's son, a veterinary student,

had made up the preparation for veterinary purposes, and its had inadvertently been brought into the shop. The it had inadvertently been brought into the shop. The Sheriff imposed a fine of 5l. In a second case arising out of a similar sale in Mr. Dyet's Dunblane shop, a fine of 11. was imposed.

Dundee.

Odol (original make) is being offered here from stocks in London.

St. Andrews University has received a gift of 2,000l. for the foundation of a bursary for students proceeding to honours in chemistry. The donor is Mr. W. J. Matheson, L.L.D., New York. The University court has appointed Miss E. S. Steele, M.A., B.Sc., Ph.D., lecturer in chemistry in the United College.

Edinburgh.

Prescriptions, of which the following is an example, are stated to originate in an Edinburgh institution: "O₆, 5iv.; B₂, 3ij." The patient's name and the prescriber's initials complete a document which occasionally finds its way into a retail pharmacy to be interpreted.

Glasgow.

Mr. George Winchester, chemist and druggist, has been appointed a representative of Juphlox, Ltd., Cochrane Street.

The Royal Philosophical Society of Glasgow held its first ordinary meeting on October 6, when Dr. F. W. Aston lectured on "Atoms and Isotopes."

An outbreak of fire occurred at the works of the National Tar Products Co., Ltd., Barrhead, recently. The flames were prevented from spreading very far.

A man charged at the Eastern Police Court on October 2 with attempting to administer to his wife with felonious intent brass filings, white lead, and mercury by inserting them into pills and chocolates, was remitted to the Sheriff.

The local Insurance medical practitioners, on October 5, presented Mr. William Jones, ex-clerk and treasurer of the Glasgow Burgh Insurance Committee (see C. & D., October 2, p. 57), with a silver loving-cup and other gifts.

The secretary of the golf section of the Glasgow Pharmacy Athletic Club desires us to emphasise the fact that the golfing match between Dundee and Glasgow chemists, recorded in this column of our last issue, was an unofficial one.

Mr. John R. C. Gordon, L.R.C.P., L.R.C.S., chemist and druggist, has been appointed to the chair of materia medica and therapeutics at the Anderson College of Medicine, where he has acted as interim professor. Gordon passed the Qualifying examination of the Pharmaceutical Society in 1902, and took his medical degrees twelve years later.

Inquiries are again being made by the police authorities concerning sales of poisons, in consequence of the supposed wilful poisoning of a number of domestic animals.

Councillor Macdonald, chemist and druggist, Dunfermline, manager of the drug department of the local co-operative society, is one of the retiring members of the town council, but is likely to be re-elected without a contest.

The "Dundee Courier" states that several Fife chemists have not yet received full payment for Insurance work in 1919. The Fife Insurance Committee recently intimated that increased credit for drugs has been obtained, and that larger payments will be made.

ITALIAN CITRIC ACID.—In addition to the two citric-acid factories already existing in Italy, a third is being built in Messina

ITALIAN CITRATE OF LIMES.—Last year's production in Italy amounted to 3,500 metric tons, of which 2,000 metric tons was exported to the United States.

It is stated by the Japanese Legation in Peking that the Japanese Government has definitely decided entirely to abolish the opium monopoly systems at Tsingtao and in the Kwangtung leased territory in the course of this year.

Poisonings.

THE following cases of fatal poisoning have been recorded since our last report:

As the result of poisoning by tincture of opium, a woman named Williamson died in Dundee Royal Infirmary on October 6.

At Cranleigh, Emily Jewitt, a domestic servant, committed suicide by drinking a solution of ammonia while of unsound mind.

At Maidstone, on October 12, an inquest on the body of Mrs. Hastings, East Farleigh, was adjourned pending a Home Office analysis, a local medical man having formed the opinion that death was due to acute poisoning.

A verdict of "Suicide during temporary insanity" was returned at an inquest held at Margate, recently, on the body of Winifred Salmen, a trained nurse, who, when admitted to hospital in a state of collapse, stated that she had taken twenty-five mercury perchloride tablets.

An inquest was held in St. Pancras, London, on October 12, on the body of Ernest Douglas Strutt, who had suddenly collapsed while at a Turkish bath and died soon afterwards. The evidence showed that cocaine was found in the stomach, and Dr. Thomas Rose attributed death to cocaine poisoning. A verdict in accordance with the medical evidence was returned, the coroner remarking that there was nothing to show by what means the cocaine was obtained or administered.

At Brighton, on October 11, an adjourned inquest was concluded on the body of Mr. George H. B. Snape, a technical chemist. The coroner stated that the analysis of Mr. Winter Blyth, F.I.C., public analyst of Marylebone, showed that hydrocyanic acid was the cause of death. Evidence having been given by a son of the deceased, the coroner said the only conclusion was that Mr. Snape deliberately took his life. He did not think it was possible for a chemist to make any mistake with hydrocyanic acid. A verdict of "Suicide" was recorded.

Coming Events.

Tuesday, October 19.

South-West London Chemists' Association, Westminster College of Pharmacy, 190 Clapham Road, S.W., at 8.30 r.M. Opening meeting. The President of the Pharmaceutical Society (Mr. E. T. Neathercoat) will give an address on "Current Pharmaceutical Topics."

South-East London Chemists' Association, Maitland House, Greenwich, at 8.45 r.m. Discussion on "Patent Medicines Bill," etc. Glasgow Pharmacy Athletic Club, Charing Cross Halls. Dance at 7.30 r.m. till 1.30 a.m. Tickets (9s. each) from members of Committee.

Wednesday, October 20.

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 8 F.M. Discussion on the two papers, "Is the Major Examination of any Value?" and "Is the Packing of our Proprietaries Desirable?" read at the recent British Pharma-ceutical Conference.

Ucal Federation (Birmingham Branch), Imperial Hotel, Temple Street, at 3 P.M. Meeting. Mr. Harold Miller has promised to be present.

Thursday, October 21.

London County Pharmaceutical Association, Holborn Restaurant, at 7 P.M. Annual dinner. Reception at 6.30 P.M. Ladies especially invited. Tickets (10s. 6d. each) from the Secretaries of the District Associations or from the County Secretary, Bunk Chambers, High Holborn, W.C.1.

Welsh College of Pharmacy, Cardiff. Inaugural sessional address by Mr. E. T. Neathercoat (President of the Pharmaceutical Society) at 3.30 P.M.

Friday, October 22.

Sheffield Pharmaceutical Students' Association, Wentworth Café, Pinstone Street, at 8.15 r.m. General meeting.

PHARMACY UNIT OF THE INCORPORATED ASSOCIATION OF HOSPITAL OFFICERS.—The Association of Women Pharmacists and the Public Pharmacists' Association will meet at 28 Bedford Square, London, W.C., on October 29. Papers by Miss C. A. Andrews, Ph.C., and Mr. E. A. Andrews, Ph.C., F.C.S., on "Lord Dawson's Report and Pharmacy," to be followed by a discussion.

Legal Reports.

Apprenticeship Dispute.-In Carlisle Court, on October 5, Mr. Robert Rutherford, chemist's assistant, Balfour Road, claimed 58l. damages from Mr. Anthony Nichol, Ph.C., Botchergate. The plaintiff's case was that in August 1911 defendant agreed to apprentice Rutherford for a period of five years. It was at first agreed that the apprentice should receive a weekly wage of 5s., to be increased each year by 1s. a week; but in September 1912 it was agreed that the sum due in wages should accumulate until the expiration of the five years, and it was alleged that in February 1914 the parties agreed that the sum thus due was 58!. Plaintiff was called up in April 1916, and on demobilisation he returned to continue his services; but in August last, plaintiff alleged, he was wrongfully dismissed. The defence was that the plaintiff refused to obey his lawful orders. Mr. Graham, who appeared for the plaintiff, said the apprenticeship was entered into by an ordinary indenture. Neither of the parties had a copy, but there was no dispute as to the terms. Mr. Meynell, for the defendant, said there was a dispute as to whether there was such a document. Mr. Graham, continuing, said that, at the time the National Health Insurance Act was passed, Mr. Nichol got it into his head that if no wage were paid to his apprentices he was not subject to payment of a certain sum of money due to the Government under that Act. When war broke out, plaintiff wanted to join the Army—which Mr. Nichol refused to allow him to do. In spite of this, however, he collisted, and Mr. Nichol became angry, and pointed out that he was under penalty of 201. for breach of indenture. The result was that plaintiff returned to his employment in October, after the attention of the military authorities had been called to the matter. Counsel then put in a receipt from the town clerk of Carlisle stating that he had received from Mr. Nichol the sum of 58l., the amount promised by Mr. Nichol to be paid by him to Mr. Rutherford provided that the latter completed his five years' apprenticeship. Mr. Meynell said that the town clerk handed the money back to Mr. Nichol. Mr. Graham submitted that, what-ever happened, this was money earned by the plaintiff, and said that during the plaintiff's absence the defendant's shop in Bank Street was shut up and remained so for some three years. The plaintiff was discharged from the Army in extremely poor health, and went back at once to Mr. Nichol, who instructed him to reopen the shop in Bank Street. One day defendant turned round, and apparently blamed the plaintiff for not cleaning the shop. The cleaning of a shop in this condition, counsel submitted, was clearly no part of the duty of an apprentice just finishing his time. Mr. Nichol then turned the plaintiff out of the shop, so putting an end to the apprenticeship. Evidence bearing out Mr. Graham's opening statement was given by the plaintiff. Witness added that he had, since leaving Mr. Nichol, been employed by Mr. P. Simpson, chemist and druggist, Caldewgate, at 2l. 15s. a week. He went there with no references, or he would have got more. Mr. Meynell: Then Mr. Nichol has probably lost a man who is worth a good deal more than 2l. 15s. a week?—He has probably lost a man who is worth 1,000l. a year. Evidence in support of the plaintiff's case was also given by plaintiff's father, who stated that the original indenture was burned because witness thought it was no use in view of the second agreement. On behalf of the defendant, Mr. Meynell submitted that the first indenture never in fact existed, and that an agreement was not drawn up until September 1912. The latter deed was binding on the parties, but did not contain the agreement which Mr. Rutherford suggested was entered into in the first instance. Mr. Nichol had lost about 4l. a week, which was the figure plaintiff would have been worth to him during the four months and three weeks remaining of the apprenticeship period. In law there was no claim what-The defendant, in evidence, said that he was told at the Insurance office that, if he paid any wages, a card would have to be stamped. The plaintiff and another

apprentice mutually agreed that they would not receive wages. The present of 58l, was to be made providing the full period was served. When witness went to the Bank Street shop to see how the plaintiff was getting on he found the latter sitting smoking a cigarette, and no work was being done so far as witness could see. Plaintiff jocularly said: "And I have been doing business. I sold Mr. Graham upstairs a tablet of soap at 2d." (Laughter.) His Honour: What was unusual about that? Was Mr. Graham overcharged? (Laughter.) Defendant said that the boy or his father had gone to the town clerk and said defendant was going to leave the town and run away to America, and would not pay the money. In cross examination, Mr. Nichol said that, but for the Insurance Act, the plaintiff would have received about 521. in wages. Plaintiff had not served him faithfully and honourably. Mr. Graham: In what respect?—He acted on his own without consulting me when he joined the Lonsdale Battalion. His Honour: That was very much to his honour. Mr. Graham: Then you wrote to someone at Liverpool and tried to put a spoke in his wheel?—No. I could not give him a good character, and I wasn't going to give him a bad one. Then what was your object in writing to Mr. Simpson? Was it your object to try and get him kicked out of Mr. Simpson's place?—It is usual for respectable tradesmen not to take an apprentice from another man in the same town. Evidence in support of the defendant's case was given by Mr. R. H. Graham, solicitor, and Mr. J. W. Errington, chemist and druggist, Stanwix. In giving judgment, his Honour said the plaintiff and his father had convinced him that the deed of 1911 was entered into. He came to the con-clusion that there had been an accumulation of wages, amounting to 52l. on August 5, 1919, as agreed wages deposited in trust for the apprentice. He gave judgment for the plaintiff for 52l., plus 2l. 15s. 6d. interest and the costs.

Fly-Reel Machine.—In the City of London Court, on October 7, before Sir John Paget, K.C., Deputy Judge, Hampson, Bettridge & Co., printers' engineers, 2 and 4 Fann Street, E.C., sued E. H. Wrigglesworth, Ltd., manufacturing chemists, Hull, for 201. for a special flyreel adhesive machine supplied. Mr. Ricardo appeared for the plaintiffs and Mr. J. Willoughby Jardine for the defendants. Plaintiffs' case was that on February 28 defendants. Plaintiffs' case was that on February 28 defendants wrote regarding a machine for spreading 2-in. tape fly-reels and one of the defendants' directors called and saw the machine, which he approved of subject to certain modifications. He gave an order, but afterwards defendants said the machine was utterly useless. Plaintiffs said that the machine was worked by hand, with adhesive container and water container, an atmospheric gasburner and a winding attachment for winding the paper as it came from the adhesive roller. They usually supplied with the machines a small bench cutting-machine for cutting the paper off in lengths as it went into the machine but before the adhesive was supplied. Defendants replied that the machine would be all right if it was about three times as large and could be worked by a motor. Mr. John Hess, one the plaintiffs, said the machine was altered to suit the defendants' requirements. One was that the machine was to go by power and that the adhesive container should be made longer. W. J. Matthews, a director of the defendant company, said that he never gave a definite order. The machine was sent on approval and never accepted, as it was useless. They wanted the tank to hold two gallons of fly gum. Sir John Paget, K.C., found for the plaintiffs, with costs, and said it was not likely that they would take on a lot of alterations if the machine was not ordered.

Dispensing a Scheduled Poison.—Judgment was given at Littledean Petty Sessions, on October 9, in the case in which Mr. John Bower, chemist and druggist. Newnham-on-Severn, was summoned under the Pharmacy Act, 1868, for having sold poison in a prescription to Dr. Thornhill, Newnham, without making the necessary entries in a poison-register, and for neglecting to obtain the signature of the purchaser to such a record. The case was defended by the Chemists' Defence Association,

Ltd. The Bench found that the strychnine was a poison, that the quantity of liquor strychnine placed with other ingredients in the mixture delivered by the defendant came within Part I. of the Schedule of the Poisons and Pharmacy Act, 1908, and that the mixture was medicine. The proportion of strychnine hydrochloride present in the mixture was 0.005 per cent. The chairman of the magistrates drew attention to the following extracts from Section 17 of the Pharmacy Act, 1868, and Section 3 of the Amending Act of 1869:

the Amending Act of 1869:

"Nor shall any of the Provisions of this Section apply to . . . any article when forming Part of the Ingredients of any Medicine dispensed by a Person registered under this Act; provided such Medicine be labelled in the Manner aforesaid, with the Name and Address of the Seller, and the Ingredients thereof be entered, with the Name of the Person to whom it is sold or delivered, in a Book to be kept by the Seller for that Purpose." "Nothing contained in section seventeen of the said recited Act shall apply to any medicine . . dispensed by any person registered under the said Act, provided such medicine be distinctly labelled with the name and address of the seller, and the ingredients thereof be entered, with the name of the person to whom it is sold or delivered, in a book to be kept by the seller for that purpose."

The chairman pointed out that, while the Pharmacy Act of 1868 conferred certain privileges to persons registered, it also imposed specific obligations having for their object the protection of the public. Section 17 had been referred to as the "coroners' section," it being clear that the object of the section was to provide some easy means of tracing the sale or delivery of medicines containing poisons. In the case before the Court no entry had been made either in the poison-book, the prescription-book, or any other book. A fine of 2l., with 12l. costs, was imposed.

The Profiteering Act.

Complaints.

HAMPSTEAD .- At the sitting of the Profiteering Committee on October 7, Parke's Drug Stores, Ltd., were the respondents in a complaint respecting the sale of 3viij. of syr. ferri iodid. ordered in a prescription dispensed at their branch at High Road, Brondesbury, the price charged being 7s. 6d. Mr. Alfred Higgs, J.P., treasurer of the Thames Valley Pharmacists' Association, appeared for the respondents. The complainant did not appear, but wrote saying that he was unable to be present. The letter stated that one pharmacist had offered to supply 3iv. for 3s. 6d., and at a good-class pharmacy in Eastbourne the price quoted was 5s. 6d. for the 3viij. Mr. Higgs: If there is no appearance by the complainant I would ask the Committee to act according to the regulations and dismiss the case forthwith. The Chairman: We shall probably do that, but the Committee would like, if you think fit, to hear you. Mr. Higgs explained that the prescription showed a gross profit of 4s. $0\frac{1}{2}d$., which was equivalent to a percentage of 56.3 (gross). The dispensing of medicines was one of the scientific sides of a chemist's business, and 56.3 per cent. was a very moderate profit indeed; on that ground alone, he claimed, the charge should not be deemed unreasonable. On the other hand, in comparison with the profit made on similar articles before the war, it would yield a profit at that time of 61.2 per cent.; therefore, according to the Profiteering (Amendment) Act, 1920, section 2 (3) (a), the price charged could not be deemed unreasonable. The Clerk: Do you make 48. profit on every prescription? Mr. Higgs: No, not the actual sum of money, but, according to the section of the Act just quoted, the same percentage rate of profit. The Committee dismissed the complaint.

Kensington.—At the sitting of the Profiteering Committee on October 11, a complaint was heard against Mr. Alexander Stemp, 15 Pelham Street, S.W. 7, described as a hairdresser, whose daughter had offered for sale a box of Nildé face-powder for 3s. 6d., a similar box being subsequently purchased in a neighbouring chémist's shop by the complainant for 2s. (C. & D., October 9, p. 70). The facts were admitted. At the conclusion of the hear-

ing the Committee decided that an improper price had been asked, but, in the circumstances, dismissed the complaint, with a caution to the respondent.

Prosecution.

At Lambeth Police Court, London, on October 13, Parke's Drug Stores, Ltd., were summoned at the instance of the Camberwell Profiteering Committee for the sale of 1 oz. of cream of tartar for 8d. (C. & D., October 2, p. 54). The defendants' solicitor was unable to be present, owing to illness. Mr. Alfred Higgs, J.P., treasurer of the Thames Valley Pharmacists' Association, applied, on behalf of Messrs. Parke, for an adjournment. The solicitor for the prosecution opposed the application, but, after some argument, the magistrate granted an adjournment on Mr. Higgs agreeing to pay the costs of the day.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

T. F. Robson, Ltd. (P.C.).—Capital, 2,0001. Objects: To carry on the business of grocers, butchers, bakers, confectioners, sugar boilers, chemists, druggists, oil and colour men, etc. R.O., Front Street, Shotton Colliery, co. Durham.

Lavos, Ltd. (P.C.).—Capital, 5,000l. Objects: To carry on the business of soap manufacturers, manufacturers and refiners of and dealers in oils, oleaginous and saponaceous substances, pharmaceutical, manufacturing, and general chemists and druggists, etc. The first directors are: S. H. Smith, 72 Rodney Court, Maida Vale, W.; and F. C. Buck, 73 Stubbington Avenue, Portsmouth. R.O.: 4 Golden Square, London, W. 1.

Sunnucks, Ltd. (P.C.).—Capital, 50,000l. Objects: To take over the businesses (1) of a hosier, hatter, and outfitter carried on by H. Sunnucks at 14 and 16 Carr Street and 21 St. Matthew's Street, Ipswich; 46-48 Long Wyre Street, Colchester; and 26 The Gentleman's Walk and 5 St. Giles, Norwich; and (2) of a chemist, ophthalmic optician, dealer in drugs, medical stores, and surgical appliances carried on by C. Smalley at 12 Carr Street, Ipswich. The permanent governing directors are H. Sunnucks, 14-16 Carr Street, Ipswich, and C. Smalley, 12 Carr Street, Ipswich.

SUEEX, LTD. (P.C.).—Capital, 100. Objects: To take over the business of a manufacturer of confectionery and chocolate carried on in London by D. A. Ruffman, together with the trade-mark "Supex," and to carry on the same, and the business of manufacturing chemists, manufacturiers, importers and exporters of and dealers in chemical, pharmaceutical medicinal, and other preparations, etc. The first directors are: D. A. Ruffman (permanent governing director), 187 Cromwell Road, S.W. 5; and C. Dobson, 54 Farringdon Square, W.C. 1. R.O.: 22 Cork Street, London, W. 1.

PARKE'S DRUG STORES, LTD., announce the payment on October 20 of the dividend on preference shares for the half-year ended September 30, 1920, at the rate of 6 per cent. per annum, less income tax.

BORAX CONSOLIDATED, LTD.—The directors have declared a dividend at the rate of 6 per cent. per annum, less tax at 6s. in the £, on the preferred ordinary shares in respect of the half-year ended September 30.

Taylors' Drug Co., Ltd.—The thirty-third annual general meeting was held at the Hôtel Métropole, Leeds, on October 11. A dividend on preference shares for the year at 6 per cent. was declared, as was also a dividend of 10 per cent. on ordinary shares. The payment of bonuses of 5 per cent. on ordinary shares, 1 per cent. on preference shares, and 1 per cent. on debentures was authorised. Mr. S. B. Mason was re-elected a director, and the following were appointed directors: Mr. H. England, Mr. J. H. Harrison, Mr. B. T. Mason, and Mr. T. J. B. Todd.

Cocoa-nut Shampoos.

There has recently been a boom in the demand for liquid shampoo ("dry shampoo"), in which cocoa-nut soap is employed. Under various names, such as "cocoa-nut oil shampoo," "emulsified cocoa-nut oil," "saponified cocoa-nut oil," etc., this shampoo has achieved considerable popularity. Notwithstanding the fact that there are numerous well-packed shampoos of this class on the market, we have had many inquiries from chemists as to suitable formulas for making the preparation, and we have devoted some time to working out the details of a practical process.

Cocoa-nut oil, the fat of the kernels of the cocoa-nut (Cocos nucifera and C. butyracea), is produced in enormous quantities, and, although employed as a fat in the manufacture of soap since 1841, and still used to a very large extent, the fat has in recent years been much in request for edible purposes, especially in the manufacture of margarine. Cocoa-nut oil, like castor oil, is soluble in alcohol; one volume of cocoa-nut oil dissolves in two volumes of 90 per cent. alcohol at 60° C.; this fact having some bearing upon the preparation of a liquid soap for shampoo purposes. One special property of cocoa-nut oil soap is the ease with which it lathers with sea-water, and as "marine soap" it is sold by chemists at the seaside in considerable quantities. Free lathering is a property especially desired in a hair shampoo.

The cocoa-nut oil group of fats is most suitable for the manufacture of soap by the cold process, which has the advantage of being simpler than the method of making soap by boiling. The process, to quote Lewkowitsch ("Chemical Technology of Oils, Fats, and Waxes'), is as follows:

The plant required . . . is of the simplest construction, and merely consists of an iron or wooden frame, into which the fat, previously brought to a temperature of about 35° C., is placed; the fat is then stirred, whilst an accurately measured quantity of caustic soda of specific gravity 1.35 is run in. The frame is then covered and allowed to stand, when the mass develops some heat, sufficient to complete the process of saponification within twenty-four hours.

Notwithstanding frequent request from subscribers in out-of-the-way parts of the world for particulars of the method of making soap, it is not likely that home chemists will make their own cocoa-nut oil soap, as it can be readily purchased from soap-makers. The fact that the soap is not "salted out," and hence contains the glycerin formed by the action of the alkali on the fat, is an additional advantage from the point of view of the person who is using cocoa-nut preparations for the hair. The powder forms of cocoa-nut oil shampoos are made with powdered cocoa-nut as a basis. The following may be taken as a typical formula:

Powdered cocoa-nut oil 5iss.
Powdered borax 5ss.
Powdered sodium carbonate ... 5j.
Solution of orange a sufficiency a sufficiency of solution of water

Liquid shampoos of the "dry" class contain a large proportion of spirit, but the more modern shampoo liquids are made with much less spirit, reducing the cost, which in the spirituous preparations is high even when permission has been obtained to use duty-free spirit. When a mixture of caustic alkalis is employed in saponifying cocoa-nut oil the process works much better. The following is the method we have evolved as a result of experiments:

Sodium hydroxide,
Potassium hydroxide, of each ... 1 part
Cocoa-nut oil 10 parts
Spirit 5 parts
Distilled water, to make ... 50 parts

Distilled water, to make 50 parts

Dissolve the alkalis in five parts of distilled water, and when cold add the spirit. Melt the cocoa-nut oil, and when it has nearly cooled to its congealing point add it gradually to the alkali solution, shaking continuously. Then shake at frequent intervals until saponification is completed. This takes from ten to twenty minutes. Finally add distilled water to make up the volume.

We find that the addition of 1 per cent, of borax improves the preparation, but even without this ingredient a freely-lathering liquid is obtained from the above formula.

The liquid is alkaline, but not excessively so, but if it is objected to it can be neutralised with a few drops of oleic acid which increases rather than detracts from its lathering properties. The alkalinity, however, exerts a deleterious effect on perfumes, so that it is necessary to employ synthetic perfumes. The most suitable are terpineol and coumarin. Lavender and geranium oils last fairly well in alkaline liquid, but more delicate perfumes, such as neroli, are rapidly changed.

Liverpool School of Pharmacy

AT the opening of the session of the Liverpool School of Pharmacy, on October 13, addressing about 200 students and pharmacists, Mr. Deakin, member of the Pharmaceutical Council, predicted that the division of the Qualifying examination would prove a great step forward. Four thousand students had enrolled after the Armistice, and accommodation was available for only 500. Over 1,300 were placed last year and over 1,400 this year in Great Britain. The warmest thanks were due to Mr. Moreton Parry. No detail had been too trivial and no service too great for him to consider or perform last year. Sixty ex-Service students were allotted to the Liverpool School, and this year there were 100 more. If any of them had received an insufficient grant let them state their case to Mr. Parry. Young pharmacists who desired either to begin business or to enter a University will have to be assisted if pharmacy is to take its place in the enlarged functions of medical service. Pharmacists must be fitted as coadjutors of the medical profession. They must carry out analyses and examinations both in bio-chemistry and radiology, these functions being rightly pharmaceutical. No calling was more interesting, largely because it helped to alleviate human suffering. The Liverpool School, conducted by Mr. Humphreys Jones and his staff, had fine traditions, and on several occasions its students had won the blue ribbon of pharmacy. He would say "The school flourishes; it has flourished; let it flourish." On proposing a vote of thanks, Mr. David Evans (Chairman) said the Liverpool Chemists' Association would continue to take a deep interest in the school, the Association founded many years ago. The school compared very favourably with any in this country. He rejoiced to hear so good a report from Mr. Humphreys Jones as that presented informally to this meeting. Dr. Symes said a greedy youth would not study pharmacy, but he personally adopted a congenial calling and would advise all youths to think more of happy work than of mere gain, though, at the same time, asking for fair remuneration. Mr. Moreton Parry described Mr. Humphreys Jones as one of the best teachers of pharmacy. Mr. Harold Wyatt emphasised the importance of Latin and early dispensing by students, and Mr. West (Southport) advised students to make Latin entries in full. In reply, Mr. Deakin said, despite the Jeremiahs, pharmacy never presented a finer field for work and adventure. He held that pharmacy offered a suitable field for women as well as men. The Pharmaceutical Council was startled when Miss Buchanan came, but she had made good both in the profession and on the Council. Women pharmacists who married would find their training had the better fitted them for matrimony. Cheers were given by the students, and subsequently Mr. Humphreys Jones entertained the speakers and other pharmacists at the Exchange Station Hotel. Incidentally, Mr. Deakin paid a tribute to the comprehensive arrangements which were made by Liverpool men and women of pharmacy for the British Pharmaceutical Conference.

Owing to the wage demands of the employees, the Baden aniline soda works have been closed.—"The Times."

The Proprietary Medicines Bill.

Chemists' Meetings in London.

A MEETING of retail pharmacists was held at the Great Eastern Hotel, Liverpool Street, London, E.C., on October 6, to consider the Patent Medicines Bill and to discuss a scheme for forming a company to manufacture pharmaceutical specialities (C, & D), October 2, p. 53). Mr. S. F. Body (Southend-on-Sea), who initiated the movement, was in the chair, and among those present were: Messrs. F. H. Blomfield (Well Hall), S. H. Campion (Old Kent Road), A. H. Carpenter (Westcliff-on-Sea), F. W. Cooper (Swaffham), G. D. Cooper (Balham), F. E. Cridland (Tottenham), W. B. Dow (Seven Sisters Road), D. T. Evans (Margate), C. W. Fox (Bethnal Green), A. Goldthorpe (Plumstead), W. T. Hill (Leighon-Sea), E. S. King (Upper Tooting), S. H. Lambshead (Paignton), H. O. Lloyd (Birmingham), J. Milner (Greenwich), R. W. Oldland (London), P. G. Richardson (Dudley), — Scanlan (London), R. W. Shields (Rochford), W. E. D. Shirtliff (Shenhond', Purk), E. Shyae (Tooting) W. E. D. Shirtliff (Shepherd's Bush), E. Skues (Tooting), H. Snow (Southend-on-Sea), W. S. Symons (Westcliff), J. A. Thompson (London Fields), G. A. Tocher (London), F. W. Truman (Old Kent Road), H. S. Watson (Finchley Road), J. H. Webb (Luton), F. G. Wells (Battersea), E. Widgery (Weston-super-Mare), A. J. Wing (Woolwich), B. R. Wilkinson (South Kensington), and F. S. Wride (Southampton).

Mr. Body, in opening the proceedings, said that a large number of letters had been received from chemists unable to be present, the communications expressing interest in the objects of the meeting. We are here primarily, he said, to discuss the Proprietary Medicines Bill. At the outset I am going, emphatically, to condemn the Bill as at present drawn. In my opinion it is one of the most serious menaces to the liberty and privileges of pharmacists that have ever been brandished before us. Few chemists until quite recently appear to have realised what a danger this Bill is to the interests of pharmacists issuing packed medicines, and, therefore, I feel you will all be in sympathy with me in trying to do all I can to bring about a drastic revision of the Bill before it passes into law. In my opinion the Ministry of Health, at present little more than a "preserve" of medical men, has in this Bill presented us a bouquet of sweetsmelling herbs, but it badly conceals a viper, and it is for us to be very careful how we handle it. It is said that the Pharmaceutical Society is apathetic and does not move in this matter which is of such vital interest to pharmacists, but the Pharmaceutical Society through its Council and the Associations' Executive Committee is a piece of machinery which must be put into vigorous motion by pharmacists themselves.

Dealing then with the object of the Bill, which is to give effect to the recommendations of the Select Committee on Patent Medicines which reported in August 1914, Mr. Body said that as pharmacists they should support legislation in so far as it will prevent fraud in the proprietary-medicine trade, but not to the extent of depriving chemists of their legitimate rights in the sole interest of the medical profession. Opposition may be expected from other quarters, but pharmacists may contemplate the effect of imposing registration-fees upon the products of ten thousand retail chemists and what it will mean in the way of revenue to the Government. You can understand, he continued, what a diabolical imposi-tion this would constitute to already long-suffering pharmacists. Chemists have to examine the problem from every standpoint. From the national standpoint, regard should be paid to the inevitable costliness of a Department of medical experts, of necessarily large dimensions, for the purpose of scrutinising and adjudicating upon formulas and claims of proprietors; also the time likely to be involved in completing the inspection of thousands of applications that must necessarily follow the passing of the Bill in its present form. This Bill will come before the autumn session of the House of Commons,

and, in my view, following the passage of the measure as now drafted into law, the Medicine Stamp Act would probably undergo revision also, and, if we are not extremely careful, we shall find privileges at present enjoyed by chemists in the sale unstamped of preparations, the formulas of which have been disclosed, seriously prejudiced, if not swept away entirely. You will, therefore, realise how important it is that such preparations should not be brought under the definition "proprietary medicines" or be capable of being interpreted as such under the Act if passed.

Dealing then with some of the objectionable features of the Bill, Mr. Body said that the words "prevention or relief," used in respect of scheduled diseases in Clause 2 (1), must be deleted. It is apparent to every chemist that if he sold the simplest thing which might be used in connection with the treatment of, shall we say, epilepsy or consumption, he would be guilty of an offence and thereby precluded from selling quite innocent specifics. The powers of the Minister to add diseases to this schedule is, as you are aware, provided for in this Bill, the only condition being that he should take such action after a resolution has been agreed by both Houses of Parliament. In my opinion, and that of several others, any conditions which regulate that schedule should equally apply to the de-scheduling of diseases, because most of these diseases have been inserted in the schedule on account of the fact that they have been regarded as incurable. Who knows what may eventuate in the future with regard to these diseases? There may be some accidental or scientific medicinal process of effecting a cure, and we want to see that something is done for the descheduling of these diseases, if and when it can be shown,

and reasonably shown, to be right and proper to do so.

Clause 3 contains the most menacing provisions of the
Bill. It is almost frightening in the possibility of its effects, if carried into law. It deals very drastically with the subject of advertisement and extremely ambiguous terms are employed, the construction capable of being placed on the words are particularly threatening to the interests of pharmacists. I suggest that there should be means: It has been explained that it means correspondence "means: It has been explained that it means correspondence by letter, but "correspondence" might easily be defined as "having relation to." We want a specific understanding of what the words "offers to give advice" mean, which are also capable of a wide interpretation. The whole paragraph should be either deleted or thoroughly revised. The word "whether" before "by advertisement" or "otherwise" following the word "advertisement" should be deleted, and also the lines after the word "indirectly" which have relation to correspondence. I understand that the intention of the Minister of Health under this clause was particularly to attack those trading by advertisements of the "trailer" type. It is well known that immediately an inquiry is received by post this variety of patent-medicine vendor will endeavour to victimise his correspondent, with a view to prolonged treatment, by holding out all kinds of specious inducements for the person to take this or that preparation, or, indeed, a chain of preparations, which he wants him to use. The Minister of Health is perfectly entitled to deal with such methods fraudulently applied, but we must see that in his attempt to sweep away the fraudulent quack he does not fetter or damage the rights of the pharmacist.

In Clause 4 there is insufficient provision against the possible disclosure of formulas. In order to avoid any disclosure prejudicial to the interests of a person against whom action has been taken by the Minister of Health, for de-registration or some irregularity or misdemeanour, he should be entitled to claim that the proceedings be heard in camera, or by a Judge, whereby the secrecy of formulas would be strictly observed.

The question of imposition of fees for registration

arises in Clause 5. This might become an exceedingly unfair burden to the pharmacist, who should not be taxed because he happens to handle drugs as a particular commodity. Pharmacists have, by reason of their calling, every right to claim free registration. With regard to Clause 5 (1) (g), the powers vested in the Minister under this Bill, by which he is permitted to accept or refuse registration, should be controlled by some advisory body, which we have a perfect right to ask should be so con-stituted as to be perfectly impartial in character. Clause 5 (1) is in relation to synthetic drugs, concerning which pharmacists have derived some amusement over reported attempts of certain noble lords to define a synthetic drug. It is rather a peculiar distinction to make. I think the intention of this clause is levelled at pure drugs sold under special names, and it has also been explained to me as being directed against German tricks. Take, for instance, aspirin. A certain German aspirin is alleged to be different from the English aspirin because of a certain molecular arrangement in its formula which renders it distinctive, although chemically similar to other aspirins. Apparently the Minister of Health wants to get rid of such anomalies. In Sub-section 2 of the same clause you will discover a serious hindrance to advertisement; in fact, the registration of name and description would appear to impose cast-iron restrictions and preclude any legitimate elasticity of terms.

Another important point, continued Mr. Body, which I want particularly to emphasise this afternoon is in respect of scheduled diseases and the provision made under Clause 9. I want you to realise what the effect of this is likely to be if doctors are to be permitted to dispense their own medicines for scheduled diseases. It will con-stitute a very great grievance to chemists. All the proprietary medicines which have hitherto been employed for diseases which are to be scheduled are to be replaced by medical prescriptions. These will necessarily be used for chronic cases where people are continually taking medi-We realise, therefore, that the dispensing doctor is going to make a great deal of capital out of his privilege both to prescribe and to dispense medicines for scheduled diseases. Clearly the pharmacist should be compensated for loss of business in proprietary medicines by having the dispensing restricted to him.

In Clause 10 the words "prevention and relief" occur again in the definition of what constitutes "medicine under the Act. I do not think in this position these words are harmful to us, but in the same clause, par. 2, we are on very delicate ground, and there is a very simple way of putting it right. It reads thus:

The expression "proprietary medicine" means any medicine held out by advertisement, label, or otherwise in writing as efficacious for the prevention, cure, or relief of any malady, ailment, infirmity, or disorder affecting human beings, when sold under a trade-mark, etc., etc.

This is an injustice, because it would have immediate effect on "known, admitted, and approved" remedies sold under trade-marks which now enjoy exemption from medicine stamp duty. The present interpretation of the Medicine Stamp Act is this: An article does not come under the definition "proprietary medicine" if a trademark is employed in connection with a disclosed formula and used for a series of preparations to distinguish the products of one manufacturer from those of another. have particular knowledge of this, because I have built up, in connection with my pharmacies, a series of preparations exactly conforming to this condition. I went into this matter with exceeding care with the Excise authorities, and secured their assurance and a letter confirming the above interpretation of the Medicine Stamp Act. I understand that Viscount Astor gave, in the House of Lords, a very definite assurance that preparations of known compositions made by reputable chemists, where no monopoly is claimed for such formula, would not be defined as "proprietary medicines." This should be carefully noted and Viscount Astor's interpretation made clear and definite in the Act, especially in relation to branded products of a known character issued by pharmacists. Then, after a reference to the exclusion of deafness and rupture from the schedule, owing to accidental circumstances, illustrating the loose way in which these Bills

are foisted on the public, Mr. Body invited discussion.
Mr. LLOYD said that every point that had been raised by Mr. Body had been considered by the Local Associations Executive and the Council of the Pharmaceutical Society, as the President's statement would show (C. & D., October 9, p. 83). The only matter upon which he (Mr. Lloyd) differed from Mr. Body was in regard to "known, admitted, and approved remedies." Mr. Body need have no fear that the wording of Clause 10 affects these. He added: "If we draw too much attention to these remedies, we may stand a very serious chance of losing privileges we now possess.

Mr. Wride referred to insidious forms of taxation and prohibitions imposed on the chemist in carrying on a business in which he is an expert. The fees for registration in this Bill will be considerable. There will also be printing expenses in altering labels, and part of the chemist's business may have to be given up.

Mr. TRUMAN thought the gist of the matter is the disclosure of formulas. He suggested that the meeting should back up the Proprietary Articles Section of the London Chamber of Commerce in getting this provision eliminated or modified to such an extent that it would not interfere with the legitimate interests of proprietary-medicine

Mr. Skues congratulated Mr. Body on calling the meet-g. Referring to Clause 10, he (Mr. Skues) thought that any Judge would be certain to say that branded goods came under the Bill. Every endeavour should be made to make the wording clear, so as to ensure that disclosed formulas do not come within the scope of the Bill.

Mr. Goldthorpe questioned whether the Pharmaceutical Society can deal with this trade matter.

Mr. Watson suggested that the Chemists' Defence Association might deal effectively with the matter.

After remarks from other speakers, the CHAIRMAN put the following resolution:

That the following recommendations be forwarded to the

That the following recommendations be forwarded to the Pharmaceutical Society for consideration and with a view to that body taking all necessary steps for carrying same as far as possible into effect:

(1) That having regard to the important privileges now enjoyed as a right by pharmacists in respect of stamp-duty exemption on disclosed formula preparations, and known, admitted, and approved remedies, the utmost endeavour be exerted to prevent same from being brought under the definition "proprietary medicines," notwithstanding the fact of their being sold under a special trade-mark or designation employed for the purpose of distinguishing the products of one maker from another. To this end, Clause 10, par. 2, should be altered by the addition of the word "secret' before "medicine" in line 2, also, if necessary, the insertion of the word "secret' before "medicine," Clause 2 of the Preamble, par. 2, line 2, and so enable such preparation to be expressly excluded from registration.

Under Clause 5 (b), that pharmacists issuing secret "pro-

Under Clause 5 (b), that pharmacists issuing secret "proprietary medicines" should be exempted from incurring fees in connection with their registration, provided such medicines are not offered for retail sale by public newspaper advertisement.

That such powers indicated under Clause 5 to accept or refuse registration of proprietary medicines or appliances or to make regulations as may be exerted by the Minister of Health be subject to the confirmation and control of a competent tribunal or advisory committee properly consti-tuted whereby equitable medical, pharmaceutical, and lay representation is assured.

Clause 2, par. (2). In order that any disease may be added to or deleted from the schedule, a resolution empowering such action be agreed by both Houses of Parlia-

That the words "prevention and relief" be deleted from Clause 2 (1).

That Clause 3 (a) he redrafted so as to protect the present That Clause 5 (a) be redratted so as to protect the present liberties of pharmacists in the legitimate distribution by post or otherwise of their proprietary articles to the public—viz., by deleting all words after the word "indirectly," line 8, as far as the word "person," line 10, and in lines 4 and 5 the words "whether" and "or otherwise," and adding the words "by post" after "correspondence" in line 7

Under Clause 9 (a) that in the terms laid down for all scheduled diseases, the dispensing of medicines

prescribed therefor by duly qualified medical practitioners

be restricted to pharmacists only,

That in the event of an irregular and illegal disclosure of a formula or process, whereby it becomes known to the public, the registered owner shall thereafter be entitled to the exclusive use of such formula or process by way of compensation and in protection of his former rights.

That all proprietary medicines containing a drug within the meaning of the Poisons and Pharmacy Act shall be manufactured under the supervision of a qualified pharmacist. (Amendment of Clause 5 (2) (g).) That under Clause 4 (5) provision be made for preventing prejudicial disclosure—viz., by the proceedings being heard

in camera.

The resolution was carried unanimously.

NORTH LONDON PHARMACISTS' ASSOCIATION.

The opening meeting of this Association was held on October 12 at the Progressive Pharmacy Club. The President, Mr. C. W. Andrew, welcomed the large number of members once again. He pointed out the various things which affect pharmacy, and urged unity and attendance at the meetings, ready to fight strenuously for the right. The secretary reported on the various matters which had arisen during the summer, including federation, Dangerous Drugs Act, and dispensing under the Pensions Ministry. Messrs. W. E. Stokes and Birkby were elected members. On the question of federation, it was agreed that a sub-committee of employers from the general committee be appointed for direct purposes on the federation. Mr. Jenkins reported on National Health Insurance matters.

Mr. Skinner introduced a discussion on the Proprietary Medicines Bill. He pointed out that while he felt the need of opposing the Bill in toto, on the ground that it was quite inadequate to deal with an admitted evil. it yet contrived to place the maximum of doubt and interference with legitimate business. The draughtsmen were not quite sure of their ground, as was easily seen by the omnibus nature of some of their clauses and definitions. These, in several instances, were so drastic that anyone might innocently contravene them. In fact, the State was carrying out the bad principle, acquired under D.O.R.A., of creating crime. However, he thought we should all be well advised to give a chance to the negotiations on certain clauses by the Council of the Pharmaceutical Society, but there must obviously be no secrecy about them, and a time-limit arranged, or strong opposition in case of failure would be abortive. He dealt with the Bill in detail, and pointed out the lines on which the Council was proceeding, but he considered the schedule of diseases was still very unsatisfactory. Known, admitted, and approved remedies were outside the Bill, but they were obviously not outside the intention, and, seeing this, it should make all chemists exceedingly cautious in allowing themselves to be lulled into acquiescence. No general trade-mark, as a distinguishing feature, could be used in covering household remedies, because such marks implied a claim, and the medicines would obviously have to be registered. The prohibition of the free use of prevention and relief applied to any disease was illegitimate, and contrary to public policy. Cure was in a different category, but he would be a bold man who ventured to say cures for cancer might not yet be found. It would appear that the principle of the Venereal Diseases Act was being carried out and an attempt made to canalise all treatment of all diseases—an impossible position. Even in registered therapeutic proprietaries it was no novelty to find the original specification greatly extended by experience. The uses of aspirin at the present time were far and away beyond the original claim. This could be got over quite easily when the full extent of the virtues of a drug or combination was known, but the maximum was a growth, not a sudden acquisition. Skin diseases present probably the greatest difficulty; he did not think any dermatologist would refuse to recognise his indebtedness to pharmacists, empirical though they may be, since doctors recognised that, after all, empiricism has many virtues. The objectionable feature is that regulation and control deal only with the obvious, the rest is driven underground, and under the heading

"Amenorrhœa and diseases peculiar to women" it is readily seen that the term defined as a proprietary medicine will simply be trifling with the subject, interfering with legitimate supply of medicine in order to crush out a few advertised things, but clearly missing the greatest evil of all. He characterised the Bill as a maximum amount of interference with a minimum amount of protection for the gulls. He suggested that the Bill should be withdrawn and a round-table conference called of experts to try, if possible, to draft a Bill capable of suppressing what was undoubtedly a social evil. Committee in 1914 was quite ineffective; the conclusions were largely those from the minds of laymen staggered by the stories told them, and their findings were salted by the pharmaceutical and medical element looking at the subject in the light of feeling rather than reason. Some check ought to be applied, but it should be that of common-sense. There was a discussion, in which Messrs. Weiss, Wells, Felton, Keith, Webster, and Jenkin took part. It was agreed that the matter should be left in the hands of the President to call a special meeting if the need for immediate action arose. Thanks were accorded Mr. Skinner for his exposition.

Select Committee's Report.

In our issue of August 29, 1914, we published the report of the Select Committee ou Patent Medicines with the recommendations. Owing to the long interval which has elapsed, we have been asked to reprint the findings so that our readers can see upon what recommendations the Proprietary Medicines Bill is founded.

RECOMMENDATIONS.

(1) That the administration of the law governing the advertisement and sale of patent, secret, and proprietary medicines and appliances be co-ordinated and combined under the authority of one Department of State.

(2) That this administration be part of the functions of the Ministry of Public Health when such a Department is created, and that in the meanwhile it be undertaken by the Local Covernment Reard

the Local Government Board.

(3) That a competent officer be appointed to this Department, with the duty of advising the Minister at the head of the Department concerned regarding the enforcement of

the law in respect of these remedies.

(5) That there be established at the Department concerned a register of manufacturers, proprietors, and importers of patent, secret, and proprietary remedies, and that every such person be required to apply for a certificate of registration and to furnish (a) the principal address of the responsible manufacturer or representative in this country, and (b) a list of the medicine or medicines proposed to be made or imported.

(6) That an exact and complete statement of the ingredients and the proportions of the same of every patent, secret, and proprietary remedy; of the contents other than wine, and the alcoholic strength of every medicated wine, and a full statement of the therapeutic claims made or to be made; and a greatment of the therapeutic claims made or to and a full statement of the therapeutic claims made or to be made; and a specimen of every appliance for the cure of ailments other than recognised surgical appliances, be furnished to this Department, such information not to be disclosed except as hereinafter recommended, the Department to control such statement, at their discretion, by analyses made confidentially by the Government chemist.

(7) That a special Court or Commission be constituted with power to permit or to prohibit in the public interest, or on the ground of non-compliance with the law, the sale and advertisement of any patent, secret, or proprietary

or on the ground of non-compliance with the law, the sale and advertisement of any patent, secret, or proprietary remedy, or appliance, and that the Commission appointed for the purpose be a judicial authority such as a Metropolitan Police magistrate sitting with two assessors, one appointed by the Department and the other by some such body as the London Chamber of Commerce.

(8) That the President of the Local Government Board (or Minister of Health) have power to institute the necessary proceedings to enforce compliance with the law, the sale and advertisement of any patent, secret or proprietary remedy, or appliance.

remedy, or appliance.

(9) That a registration number be assigned to every remedy permitted to be sold, and that every bottle or package of it be required to bear the imprint "R.N. . " (with the number), and that no other words referring to the registration be permitted.

(10) That in the case of a remedy the sale of which is prohibited, the proprietor or manufacturer be entitled to appeal to the High Court against the prohibition.

(II) That the Department be empowered to require the name and proportion of any poisonous or potent drug

forming an ingredient of any remedy to be exhibited upon the label.

(12) That inspectors be placed at the disposal of the Department to examine advertisements and observe the sale

of proprietary remedies and appliances.

(13) That an annual fee be payable in respect of every

registration number issued.

Your Committee make the following recommendations regarding the amendment of existing laws:

(1) That the Stamp Acts be consolidated and amended to remove the numerous existing anomalies and unreasonable to the convention of the state of the convention of t exceptions. In this connection, pure drugs vended entire under a fancy name should no longer be exempt from duty; the distinction between the name of an ailment, and the name of an organ the seat of that ailment, should be abandoned; and the exemption of medicines generating carbonic acid gas should be omitted. Further, any reference in advertising matter to the Government stamp should be prohibited, and no name of a proprietor or firm should be printed upon the stamp.

(2) That the Indecent Advertisements Act be amended on the lines of Lord Braye's Bill.

Your Committee further recommend the following

legislative enactments:

(1) That every medicated wine, and every proprietary remedy containing more alcohol than that required for pharmacological purposes, be required to state upon the label the proportion of alcohol contained in it.

(2) That the advertisement and sale (except the sale by a lateric enterty of medicine purposition to count the follows:

doctor's order) of medicines purporting to cure the follow-

ing diseases be prohibited:

locomotor ataxy diabetes cancer paralysis fits Bright's disease consumption rupture (without lupus operation epilepsy deafness appliance).

(3) That all advertisements of remedies for diseases arising from sexual intercourse or referring to sexual weakness be prohibited.

(4) That all advertisements likely to suggest that a medicine is an abortifacient be prohibited.

(5) That it be a breach of the law to change the composition of a remedy without informing the Department of the proposed change.

(6) That fancy names for recognised drugs be subject to

regulation.

(7) That the period of validity of a name used as a trade-mark for a drug be limited, as in the case of patents

and copyrights.
(8) That it be a breach of the law to give a false trade description of any remedy, and that the following be a definition of a false trade description: "A statement, definition of a false trade description: "A statement, design, or advice regarding any article or preparation, or the drugs, or ingredients, or substances contained therein, or the curative or therapeutic effect thereof, which is false or misleading in any particular." And that the onus of proof that he had reasonable ground for belief in the truth of any statement by him regarding a remedy be placed upon the manufacturer or proprietor of such remedy.

(9) That it has a breach of the law—

(a) That it be a breach of the law—
(a) To enclose with one remedy printed matter recom-

(b) To invite sufferers from any ailment to correspond

with the vendor of a remedy.

(c) To make use of the name of a fictitious person in connection with a remedy. (But it should be within the power of the Department to permit the exemption of an old-stablished somethy from this provision.) established remedy from this provision.)

(d) To make use of fictitious testimonials.
(e) To publish a recommendation of a secret remedy by a medical practitioner unless his or her full name, qualifica-

tions, and address be given. (f) To promise to return money paid if a cure is not

BAY RUM DENATURANT.—In the United States the addition is permitted as a denaturant for bay rum of "the soluble matter of not less than two grains of the pulp of the colocynth fruit (Citrullus colocynthis) to each fluid ounce of the preparation." Other denaturants allowed are tartar emetic (\(\frac{1}{3}\) gr. to each ounce), resorcin (5 gr.), quinine sulphate (2 gr.), cinchonidine sulphate (2 gr.), salicylic acid (5 gr.), and sodium salicylate (5 gr.).

Birth.

MARTIN.—At 106 High Street, Aldeburgh, on October 10, the wife of C. W. Martin, M.P.S., of a son.

Marriages.

BOULTON—WALKER.—At St. Paul's Cathedral, Calcutta, on September 1, Ernest Henry Charles Boulton (George Curling, Wyman & Co., branch of The British Drug Houses, Ltd., London, N. 1) to Lilian Melville, widow of the late Mr. E. T. Walker.

CLUNIE—THEERMAN.—At St. Augustine's Chorlton-cum-Hardy, on October 6, Arthur Stanislaus, only son of Mr. A. Clunie, druggists' sundriesman, 53 Upper Brook Street, Manchester, to Frederica Mary Louise, eldest daughter of the late Mr. W. P. Theerman,

STONE—MORRIS.—At the Garnethill Synagogue, Hill Street, Glasgow, recently, Marcus Hope Stone, chemist and druggist, to Eva, daughter of Mr. R. Morris, Grant Street West.

Deaths.

Brothwood.—At Stanmore, New South Wales, on April 27, Mr. Harry Skarratt Brothwood, chemist and druggist, aged sixty-four. Mr. Brothwood qualified in London in 1878, and went out to Sydney five years later. He was at one time President of the Pharmacy Board of New South Wales, and for many years acted as an examiner to the Board. He was also editor of the "Pharmacy Journal of New South Wales"

Brown.—On October 7, as the result of a motor-cycle accident, Mr. Frank Brown, son of Mr. A. M. Brown, chemist and druggist, President of the Walthamstow Pharmaceutical Association, aged twenty. -Deep sympathy is felt with the President of the Walthamstow Association, whose son was a young man of great promise and was very popular at the social functions of the Association. At the funeral service, which took place at St. Peter's-in-the-Forest, Walthamstow, on October 11, the Association was represented by Messrs. Chapman, Fromow and Gray and sent a wreath in token of respect. There were also present Messrs. Gaze and Leighton (Essex County Association of Pharmacists), and Mr. T. Ford (S. Maw, Son & Sons, Ltd.).

Garden.—At 96 Powis Place, Aberdeen, on October 4, Ethel, beloved wife of Mr. Angus M. Garden, pharmacist (late Lewis & Burrows, Ltd., Baker Street, London, W. 1).

LEVIN.—At Nottingham, on October 3, Mr. Joseph Elkin Levin, chemist and druggist, aged forty-three.

STANWAY.—At 79 Allen Road, Wolverhampton, on September 18, Fanny, beloved wife of Mr. E. T. Stanway, chemist and druggist, formerly of Horseley Fields, aged sixty-nine.

Stevens.—At 47 Honeywell Road, Wandsworth Common, London, S.W. 11, on October 4, Mr. Matthew Henry Stevens, aged seventy-six. Mr. Stevens had acted as locum tenens in the London area for many years past, and was highly esteemed by the many pharmacists who knew

DEMONSTRATION OF A FIREPROOF SOLUTION .- Mr. Truro, an ex-soldier, gave a demonstration in London, on October 12, of the fire-resisting properties of a solution of which he is the inventor. Shavings were soaked in petrol and set alight, and Mr. Truro not only walked through the blaze, but knelt down in it without his clothing being ignited, or he himself, apparently, suffering any inconvenience.

Personalities.

Mr. D. F. RITCHIE, Ph.C., 68a High Street, Newport, Isle of Wight, has purchased the premises at 102 High Street.

Mr. Arthur Lander, J.P., Ph.C., Canterbury, has been appointed to the judicial authority for the city under the Lunacy Acts.

ALDERMAN A. SIDNEY CAMPKIN, J.P., Cambridge, has been appointed to the local judicial authority under the Lunacy Acts.

Mr. Bray, Jun., has joined the representative staff of A. de St. Dalmas & Co., Ltd., Leicester, and will assist his father, who is also on the staff.

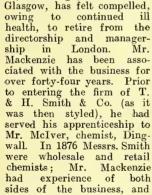
WILLIAMSON BROTHERS, druggists' sundriesmen, 16 Southwark Street, London, S.E. 1, ask us to state that Mr. R. J. F. Gillman has ceased to represent them.

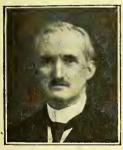
It is announced that Sir Richard Winfrey, M.P., Ph.C., is not seeking re-election to the Peterborough city council, of which he has been a member for twenty-two years.

MR. C. R. LEECH, son of Mr. C. R. Leech, sen., chemist and druggist, Barton Street, Gloucester, has been appointed organist and choirmaster of the Parish Church, Huntley.

Mr. Robert A. P. Leslie, a director of Smith. Stanistreet & Co., Ltd., Calcutta, is paying a visit to London, and expects to remain here till October 29. Letters may be addressed to him c/o Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C. 1.

Mr. Donald Mackenzie, chairman for the last fourteen years of T. & H. Smith, Ltd., Edinburgh, London, and





MR. DONALD MACKENZIE.

passed the Qualifying examination of the Pharmaceutical Society in 1886. It was not long, however, before he was given the supervision of the wholesale warehouse in Duke Street, Edinburgh—now superseded, as also is Canon Mills, another depôt, by the spacious premises illustrated in The Chemist and Druggist at the time of the British Pharmaceutical Conference meeting in Edinburgh in 1912. After a period as town traveller in Edinburgh, Mr. Mackenzie, on the death of Mr. Peter S. Smith, was for eleven years one of the four trustees who carried on the business till its conversion into a limited company. In 1898 he came to London, where he was subsequently elected chairman of the board of directors. Mr. Mackenzie is the sole survivor of the original trustees, and the only link with the late Mr. Thomas Smith, who founded the business in 1827. During the past twentytwo years Mr. Mackenzie has carried out extensive business tours on the Continent, in Canada, the United States, and Japan. His notable achievement in the development of the well-known business of T. & H. Smith, Ltd., is attributed by him largely to the loyal support of an excellent staff, of whom he speaks in terms of cordial praise. Mr. Mackenzie will carry with him the good wishes of the many friends he has made, in all parts of the world, during his long business career.

MAJOR W. H. BOWLING, chemist and druggist, Pembroke Dock, has been appointed D.A.D.O.S. of the 53rd (Welsh) Division, T.F. A portrait of Major Bowling, with some notes by him on a military hospital, appeared in The Chemist and Druggist, 1916, p. 816.

Mr. J. G. Rosengarten, of Philadelphia, has sent to the University of Manchester, through the editor of the "Atlantic Monthly," a gift of 50l. towards the founding of a Lord Bryce Scholarship of Civic Sociology and a John Morley Scholarship of Political Science.

MISS BLANCHFORD, only daugnter of Mr. Rex Blanchford, chemist and druggist, High Street, Wimbledon, London, S.W. 19, has completed a four months' business tour through France, and has joined the staff of Lecitain, Ltd., as their London representative. Miss Blanchford speaks five languages.

ALDERMAN OWEN A. CLARK, chemist and druggist (Nunn, Hinnell & Clark, chemists), Bury St. Edmunds, who was Mayor of that borough throughout the war, is retiring from public life. Alderman Clark recently lost his wife and has had a serious illness; and to complete his recovery it is essential that he should be relieved of the strain of public life. At the meeting of the Bury town council, on October 12, the Mayor and the deputy-Mayor paid tributes to his services.

Wills.

Mr. Alfred Philip Evans, chemist and druggist, 72 North Side, Clapham Common, London, S.W., who died on August 11, left estate of the gross value of 3,513l. 16s. 4d., with net personalty 3,448l. 1s. 4d. Probate of his will has been granted to his widow, Mrs. Florence Mary Evans, of the same address, and Mr. Charles Stanley Dyer, Myrtle Cottage, Chase Road, Southgate.

MR. WILLIAM BEAVERLY COWIE, Ph.C., 8 East Claremont Street, Edinburgh, and 26 Clyde Street, Edinburgh, who died on April 26, left personal estate in the United Kingdom valued at 5,400l. Probate of his will has been granted to Mrs. Cowie, the widow; Mr. G. Galfrey, Edinburgh, solicitor; Mr. A. Mortimer, Edinburgh, insurance agent; and Mr. G. F. Merson, Ph.C., 9 Hampton Terrace, Edinburgh.

MR. WILLIAM RANSFORD, retired chemist, West Dene, Druid Stoke Avenue, Bristol, who died on July 23, left property of the gross value of 6,549l. 18s. 4d. The testator leaves the property to his wife, for life, and, on her death, he gives 100l. to his son, Lionel, and one-half of the residue to his daughters, Mary Beatrice and Ruby, and one-half between his sons William Reginald, Leonard, and Conrad Maurice.

MR. THOMAS PIERRE MORSON, chemist, 16 Elsworthy Road, Hampstead, London, N.W., of Thomas Morson & Son, Ltd., manufacturing chemists, Gray's Inn Road and Ponder's End, who died on June 29, left 26,828l. 2s. 4d., with net personalty 26,527l. 3s. 5d. Probate is granted to Mrs. Morson, the widow, and Thomas D. Morson. son. The testator gives his share and interest in the business, with the goodwill, machinery, and premises, to his sons, Thomas D. Morson and Leslie Jules Morson, subject to the payment of 500l. a year to his wife, of 2,500l. to his son, Albert Clifford, and of 3,750l. to his daughter, Gladys Florence Wilkinson. The residue is to go to his children.

Design of a Mace.—A made presented to the American College of Surgeons by consultant surgeons of Great Britain, on October 12, is of silver gilt. The crownshaped finial is formed of six scroll buttresses upholding the "Sacred Flame of Science," issuing from a mortar of antique pattern, the model of which was found on the battlefield near Salonika. The buttresses spring from a cresting composed of alternating maple-leaves and American eagles, intertwined with the serpents of Esculapius. An illustration of the made appears in "The Times" of October 13.

Trade Notes.

HOOPER, STRUVE & Co., LTD., mineral-water manufacturers, 7 Pall Mall East, London, S.W., have been granted a warrant of appointment to the Prince of Wales, with authority to use the Prince's arms.

Mr. Thomas Swales, 24 Butt Court, and 89 Albion Street, Leeds, has doubled his warehouse space by leasing additional premises in Butts Court. This allows Mr. Swales to facilitate the prompt dispatch of all orders.

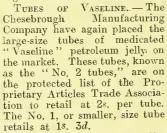
MALT EXTRACT CONTRACTS.—H. A. & D. Taylor, Ltd., Sawbridgeworth, Herts, give contract prices for packed malt extract and malt and cod-liver oil. Chemist's name and address is printed on labels for orders of 6 doz.

ELECTRIC POCKET LAMPS.—Archibald J. Wright, Ltd., electricians, 61 Eden Grove, Holloway, London, N. 7, make an offer of a sample order for one dozen electric pocket lamps for 25s. The new season's list is ready for distribution.

Maltine.—The trade prices of Maltine, made by the Maltine Manufacturing Co., Ltd., 183 Acton Vale, London, W. 3, have been revised so as to allow chemists a larger profit. The prices are given in the company's advertisement in this issue.

THE SORBO MAN.—At a recent carnival held at Llandrindod Wells, with the approval of the local council, a

approval of the local council, a special prize was awarded to a competitor who was dressed in a costume of Sorbo rubber sponges. The illustration shows the effect produced by the wearing of this novel dress.



Pears' Vanity Case.—The latest addition to the "Golden Series," brought out by A. & F. Pears, Ltd., 71-75 New Oxford Street, London, W.C. 1, is a dainty vanity case containing

Street, London, W.C. 1, is a dainty vanity case containing small boxes of face powder and cream, which a lady can carry in the handbag. The case and contents are finished in the familiar dull gold, and the outer carton is in crimson.

Mr. H. Rubeck, 59 Mark Lane, London, E.C., informs us that rosemary oil produces beneficial results as a rubefacient in cases of rheumatism, and that, in this connection, the oil has a considerable use in Spain among the distillers. He will be pleased to supply samples on application to those who are interested from this point of view.

'Ayrton's Skin Cream.—Ayrton, Saunders & Co., Ltd., Liverpool, are introducing a new skin cream which is enclosed in a carton artistically decorated in colours from a design by Val Prince. The retail price, protected under the scheme of the Proprietary Articles Trade Association, is 1s. 4d. Handsome showcards, 15 × 12 in., embodying the Val Prince design are supplied to chemists.

"M.P.S." PACKED GOODS.—W. B. Cartwright, Ltd., Rawdon, Leeds, have sent us an artistically produced booklet dealing with the "M.P.S." series of packed medicinal and toilet preparations which they manufacture. The booklet is illustrated so as to show the style of the package, the series having a distinctive style throughout. Showcards are sent out with the various articles, which help the sale.

W. J. Bush & Co., Ltd., essential-oil distillers, Ash Grove, Hackney, London, E., have just issued their monthly price-list for October. The list is a comprehensive one and is intended for wholesale druggists, manufacturing confectioners, aerated-water manufacturers, and those interested in the perfumery, soap, tobacco, and allied industries. Besides giving current prices, the list provides useful information on the method of using certain of the materials quoted.

AMERICAN DYES.—The National Aniline and Chemical Co., Incorporated, 21 Burling Slip, New York, send us a beautifully illustrated brochure giving a brief outline of the development of the American dye industry, and a description of their exhibit at the Sixth National Exposition of Chemical Industries at the Grand Central Palace, New York. A unique feature of the exhibit is the display of lifelike figures, costumed in the latest fashions and artistically grouped upon a piazza of a country house.

Perivale Preparations.—An opening announcement is made in this issue by Langham Bros., Ltd., fine-chemical manufacturers, Perivale, West Ealing, London, W. 13, regarding the Perivale toilet preparations. A special 51, parcel is given in detail, quantities of crème de menthe tooth-paste and Perivale mouth-wash and hair cream being supplied as the bonus. The company are offering an additional prize for window-displays in connection with the competition organised by the Advertisers' Exhibition.

ZEPTO WINDOW DISPLAY.—Thos. Christy & Co., 4, 10 and 12 Old Swan Lane, Upper Thames Street, London, E.C. 4, inform us that they have ready a new display card for Zepto pencils, which looks likely to become every bit as popular as the "Mons Man." "All the Money in the World" as the showcard is called, is smaller, and represents the world floating in space and surrounded by the Saturn ring. In the sphere are large jagged holes stamped on various countries, and from these holes flow the paper and metal currency pertaining to that particular country. This all accumulates at the right-hand bottom corner of the picture, and below the Zepto wording. On the right wing is a picture representing the Royal Exchange and the money flying out of its doors, and wording relative to the "wealth of the West." On the other wing there are jewels, etc., and wording about the "treasures of the East."

EMULSION PASTILLES.—Thomas Kerfoot & Co., Ltd., Bardsley Vale, Lancashire, send us their "Book of Emulsion Pastilles" (printed at their own works), which is shortly to be distributed to the trade. It is an artistic production, and describes the series of pastilles known under the term "Emulsion." The pastilles are sold in bulk or in boxes. The emulsion antiseptic pastilles are supplied in boxes, of which there are several distinct designs. A favourite is the "green marble" box, so called because the decoration of the tin faithfully reproduces the veining of green marble. The pastilles are pleasantly smooth to the taste, and the prices charged are moderate. We note also that the company supply at a cheap rate empty cartons, labelled with the name and address of the chemists, which hold two ounces of pastilles. These are just the thing for promoting retail sale, as the carton forms a handy container for carrying in the pocket.

Information Department.

INFORMATION WANTED.

M/1310. Sterling electric face massage machine

INFORMATION SUPPLIED.

Argein, H/710
Ambriodin, W/610
Bottle - cleaning (small), P/710
Bronchitis kettles, D9/1110
Chatterton's compound, B/1110
Coignet's glue, G/610
Coloured raffia, D/410

Hearn's bronchitis cure, R/1110
Holland's foot supports, M/410
Hormotone, C/1110
Liquid soap dispensers, A/1210
Ozonair, S/810
Solidified spirit stoves, L/140
Suzuki's menthol crystals,

Observations and Reflections.

By Xrayser IL

The President's Statement

of what has been done by the Council with regard to the Proprietary Medicines Bill is. as you infer, far from satisfactory, even if it be admitted that the amendments to be proposed are sufficient for our protection, which is more than I, for one, am prepared to admit. It is difficult to see why action was not taken in the House of Lords. The Bill was under consideration there from August 6 to August 16, when Parliament adjourned. Amendments were proposed during that period: why not by us? It is reasonable to suppose that even if an agreed measure could not be arranged there (of which there is no proof) the form of the Bill as it leaves that House will to a considerable extent determine the form in which it is accepted by the Commons. Prima facie the Upper House would seem to be the likeliest place in which a Bill of this kind, non-political, and bristling with small but important points the already congested Lower House has scant time to consider, could most easily be licked into shape. Mr. Neathercoat gives no reason why it is not so. But although our joint Committee was appointed on August 4 it did not meet until September 22, when neither House was in session. This may have been masterly inactivity, but it looks uncommonly like what is usually called inertia. It is fortunately not yet too late to move in the House of Lords, and pressure ought to be brought to induce the Council to do this unless good reason can be alleged for not doing it.

The Proposed Amendments

are clearly not sufficient for our full protection. The weakest of them all, in my judgment, though there is much point in what you say of "known, admitted, and approved" remedies, is the one dealing with the schedule of diseases. It is not enough that the Minister of Health should have "power to delete" from the schedule: the deletion ought to be much more drastic than any Minister of Health swayed by the medical profession is likely to agree to; in fact there is no disease whatever that it should be forbidden to relieve or prevent, though there may possibly be some for which it is inconvenient that "cures" should be advertised. A great deal, of course, depends upon the terms in which such offers are made; it is here that supervision and control are called for, if anywhere; but to forbid honest offers to relieve or prevent any ill from which humanity suffers is sheer obscurantism.

Major Peck's Admirable Address

is perhaps not the less admirable because, while marking out the way of advancement within the profession of pharmacy, it also indicates a way out of it. It is quite certain that such an education as he desires for every pharmacist will breed a distaste for the "chemist's shop" of commerce in a good many of them, and indeed Major Peck holds out the prospect of higher possibilities beyond as an inducement to educate ourselves above what seems immediately necessary for our business. In this I am heartily with him, but I am not so enthusiastic as he with regard to university education for pharmacists. It is well to have on the other side of pharmacy a door open to those who are irresistibly impelled to rise out of it, but it might not be well to have the door too invitingly open. It should not be so forced upon our attention as to draw-us away from our present duties. If I might parody Pope, I would say:

Happy the man whose wish and care At his dispensing counter stop; Content to breathe his native air In his own shop.

The higher education I desire for pharmacists, as for everybody, is that at which Major Peck glanced in his closing remarks—an education in the things of the mind, which softens and refines, breeds no discontent or "vaulting ambition," but makes life worth living in the humblest estate.

The Misunderstanding

between the Local Associations Executive and the representatives of the unemployed pharmacists, however it arose, appears to demonstrate not only the inability of the L.A.E. to do anything in the matter of unemployment (upon which Mr. Skinner commented so bitterly), but even to apprehend the question submitted to them. They were asked to discuss a proposition for providing employment for these men, and all they did was to present a report antagonistic to the idea of a scale of salaries. That there is some connection between the two subjects is true, but the immediate question is not the scale of wages, but unemployment, and it is by no means necessary to settle the former before tackling the latter. It may be true that the matter was not very well put before them (Mr. Skinner's account is not apparently in very close accord with Mr. Deakin's), but it is significant that the salaries question so dominated the mind of the Committee that everything else was virtually lost sight of. The "basic principle" of a minimum wage stuck; the rest hardly came into view. Now, I deny that in dealing with unemployment the minimum wage is a basic principle, though I can easily understand that to employers obsessed by an incurable prejudice against it the principle may seem basic enough. Having frequently expressed a doubt whether a minimum-wage scale is either possible or desirable in retail pharmacy, I shall not be suspected of arguing in its favour, but it would be deplorable if such a subsidiary question were allowed to paralyse our immediate attempts to find employment for those needing it.

The Confusion of Cocoa with Cacao,

of which you spoke in your review of Mr. Knapp's book on cocoa, is older than seems to be generally supposed. The Oxford English Dictionary says currency was given to it by the (supposedly) accidental running together of the article Coco with the article "Cocoa (=cacao)." I have not the first edition of Johnson to refer to, but in the abbreviated edition Cocoa does not equal Cacao, nor does the latter appear at all except in the article Chocolate, in which we are told that chocolate is "the nut of the Cocao [sic] tree." Bailey distinguishes correctly the one word from the other. Dyche (1744) does not include Cocoa in his dictionary, but gives a correct description of Cacao under "Cacao or Cacoa." Strange to say, of *Uacao* under "*Cacao* or Cacoa." Strange to say, Bailey, otherwise correct, defines *Chocolate* as "a sort Walker, in 1827, gravely repeats this error: he says, "the mass made by grinding the kernel of the coconut." All the old writers of voyages that I have condut." All the old writers of voyages that I have consulted use both names properly, and, properly too, spell Cocoa without the a. Who really gave currency to the error, or with whom it originated, is not clear. The error, or with whom it originated, is not clear. The careless spelling so characteristic of our forefathers is apparently the secret of the whole matter.

Ipecacuanha,

when first introduced into Europe, created, perhaps, as great a sensation as any new drug ever did. Sprengel's account of it, how Helvetius experimented with the root and sold the secret of the remedy for dysentery prepared from it to Louis XIV., who had the formula published, may be read in Wootton. The igpecaya described in Purchas's "Pilgrimes" as a Brazilian specific for dysentery was early identified as the same plant, and probably is so, though "very rank and filthy" seems rather a strong term to apply to the smell of the dried root of our shops. There is a long account (eleven columns) of the new drug in Alleyne's Dispensatory (1733), consisting mainly of extracts from the "Philosophical Transactions," No. 410, p. 152, and translations (copied from Quincy) from articles by M. Bolduc in "The Memoirs of the Royal Academy of Sciences for 1700-1." M. Bolduc seems to have examined and experimented with the root pretty thoroughly. He deprived it of its emetic quality, extracted its "salts" from the resins, which had proved too violent a purgative, and found them mild in action, though retaining the "specific quality of the root, that is, to cure Dysenteries."

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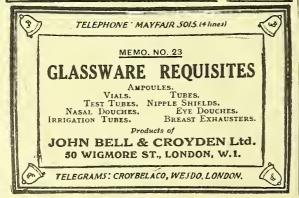
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n announcement of particular interest to you appears in this issue on page xvii

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Editorial Articles.

Watch the Council.

WE have to thank several correspondents who have sent us copies of the telegrams and letters to the Council of the Pharmaceutical Society regarding the Proprietary Medicines Bill, which helped so effectually to overcome the inertia of the Council. The wording of some of these communications was to the point, and must have convinced the Council that the trade has to be considered in matters such as this Bill, which so seriously affects chemists' rights. The need for the awakening is shown by the President's speech, which we reported last week. He stated that the first meeting of the sub-committee of the Council and the Local Associations Executive appointed to deal with the Bill was held on September 22. As the Bill was introduced into the House of Lords on July 13, and was printed before the end of July, we leave it to our readers to judge whether we were justified in using the

word "inertia" in connection with such leisurely proceedings where a measure like the Proprietary Medicines Bill is concerned. Elsewhere we reprint the recommendations of the Select Committee on Patent Medicines which we gave in the C. & D., August 29, 1914. Our readers will see from the reprint the foundations of the Bill which it is intended to rush through Parliament at a time when the congestion of more serious business is so great. It will be noted, for instance, as pointed out recently by a C. & D. correspondent, that the schedule of diseases has been tampered with by the inclusion of the words, "Amenorrhœa and other diseases peculiar to women." The far-reaching effect of this addition should be brought home to the House of Commons and the Minister in charge of the Bill should apologise to the House for exceeding his instructions. It is increasingly obvious that to place a medical man at the head of the Ministry of Health is a menace to the liberties of the non-medical population of this country, and the rule will have to be made that, as in the War Office, the Minister must not be appointed to a position where he may use his influence to further the interests of the profession to which he belongs. A point which Viscount Astor, in the House of Lords, put forward as a reason why disclosure of formulas of secret remedies should be demanded was that it has been attempted in some of the overseas possessions and in some foreign legislation. He implied that this country is backward in not having yet embodied confiscation of trade secrets in its laws. It seems to be forgotten that the British Parliament is the mother of such institutions, and that other Parliaments are small affairs compared with the Imperial Parliament. Local Parliaments are not usually regarded as initiators of important measures, nor should the laws of commercially unimportant foreign nations be taken as a model for the chief commercial country of the world. One must also consider that in local Parliaments there is the same medical clique, with the addition of the element which aims at keeping out of the country products that can be manufactured in the country concerned. The London meetings which we report in this issue supply useful commentaries on the provisions of the Bill. It must not, however, be forgotten that, as Parliament meets again next Tuesday, there is the risk that the Ministry of Health, lest it be baulked of its prey, may attempt to rush the Bill through both Houses before the members of the House of Commons can be made aware of the strong feeling against the Bill. It may be necessary for chemists to take action independently of the Pharmaceutical Society.

Indian Essential Oils.

Among some interesting details on the Indian essentialoil industry touched upon in a paper read by Mr. A. K.
Menon before a recent conference in Madras was the
statement that there is considerable scope in the Madras
Presidency for the establishment of factories for the
extraction of essential oils, as the raw materials there
are very abundant. As we announced, recently, in our
news columns, a start has been made in this direction
in Mysore, where a factory equipped with the latest
steam-distillation plant is already at work producing
oils of high-grade quality under the direct supervision
of an expert chemist. Indian oils, as we know them,
suffer in quality very much as a result of the primitive
methods adopted in extraction. Lemongrass oil, as Mr.
Menon stated, is one of the chief oils distilled on a

large scale on the West Coast, but it is too dark to be esteemed very highly on the European market. This defect is due to the facts that the distillation plant used is of the most primitive kind and the raw material is collected in a very desultory fashion. It is, of course, to be remembered that, even had the modern equipment not been lacking, few, if any, distillers could have put it in motion. But with the educational facilities that have been available during the last decade or so this drawback is likely soon to be overcome. For not only in India are students acquiring facility in technical subjects; every year sees the arrival of prospective pupils to these shores, and, after a brief sojourn, the young men return to the East with a university degree as their hall-mark of a scientific training. What the Mysore Government has achieved in the sandalwood-oil industry is an object-lesson of what can be done, under scientific conditions, in cardamom, linaloe, gingergrass, palmarosa, cinnamon, and other oils, the material for which grows in the immediate neighbourhood. These vast supplies of raw material to which we have referred are, of course, uncultivated. With the variety of climatic conditions which India can offer, according to altitude, it is reasonable to assume that the possibilities awaiting the cultivation of essential-oil-bearing plants are favourable, and it is satisfactory to note that investigations are already being made in this direction on the hills of the Madras Presidency. While it is premature to surmise the nature of the essential-oil crops that may be suitable for cultivation, it might be well for the growers of flower crops in the Grasse district of France to consider whether the exorbitant charges made for their produce may not hasten the coming of competition from unexpected quarters. But India may best be able to offer products which are peculiarly Indian, for we understand that some of the night-flowering garden plants exhale odours of great delicacy and aroma, and up to now no attempt has been made to introduce them to commerce. No doubt the possibilities in this direction will be duly considered by Sir F. Nicholson, who is in charge of the investigations regarding the cultivation of plants for their essential oils. Sufficient has been said, however, to show that serious attempts are in progress to make India a producer of high-grade essential oils for the perfumer's industry. The question of cost naturally enters largely into the success or failure of the schemes and it may be that the oils obtained under modern conditions may cost more per lb. than the crude and uncertain products which are now offered. On the other hand, purity and appearance are likely to account for the difference, and that is what the consumer will have to decide. But the plans which are now under consideration will undoubtedly react in India's favour, and they are entitled on this account to consideration and encouragement on the part of consumers in this country.

The Excess Profits Tax.

We have never concealed our dislike of the continuance in peace time of the excess-profits tax, and it is with some satisfaction that we see now, even at this late hour, some indication that the Chancellor of the Exchequer is beginning to waver in his attachment to it. This is not to be wondered at if the Treasury, under the operation of the tax, is to be faced with many such claims as that recently admitted in the case of the co-operative wholesale society to which over 700,000l. over-paid excess-profits duty has been repaid. To the ordinary citizen not

acquainted with the peculiar character of this impost it must seem well-nigh incredible that a tax imposed at the rate of 60 per cent. for the current financial year should, instead of yielding a surplus to the Exchequer, result in a liability. And this, be it remembered, altogether apart from any question of cost of collection. But the special nature of the tax has to be kept in mind. It was imposed as a war tax intended to be operative during the whole period of the war, and from this it naturally enough follows that the debtor and creditor account between a trader assessed to the duty and the Treasury cannot be finally adjusted until the close of the period during which the duty is in force. Consequently a taxpayer whose profits in one accounting year might make him liable to pay a substantial sum by way of excess-profits duty to the Exchequer might make such a trading loss in the following year that the assessment on him for the two years taken together would be very much reduced or even wiped out altogether by the simple mathematical process of adding a plus to a minus quantity. And so for the whole of the tax years over which the duty is spread. Thus, as the tax has to be paid each year as it is assessed, the liability of the Treasury to repay excess-profits duty in lean trading years is explained. This uncertainty as to what a taxpayer's ultimate liability will be is by no means the least objectionable feature of the tax. Few at this time of day, will be disposed to question the soundness of Adam Smith's canon that a tax ought as far as possible to be certain. Yet here is an impost which, as we have said, is in its general conception a tax charged for the whole of the period during which it is in force on the amount by which the profits of a business exceed the average profits of the same business in the period immediately preceding the outbreak of the war, and one cannot at any moment say what will be the result of its working on a final adjustment of accounts between the taxpayer and the Chancellor. Although it is a unified levy for a period, the rate of charge has varied from time to time during the period. For the first accounting year the rate was 50 per cent., for the next two years 60 per cent., then followed two years at 80 per cent., to be succeeded by one at 40 per cent., for which in turn 60 per cent. was substituted as from January 1 of this year. In the meantime a number of modifications of the incidence of the duty by way of relaxation have been made chiefly by the Finance Act, 1917, and by the Finance Act of the present year, but these apply only to portions of the whole tax period. The result is the bewilderment of traders which might be expected. The general economic objections which can be urged against the duty we have already given expression to. Its tendency to encourage extravagance in the conduct of our great industries is now too generally admitted to need emphasising. We are so convinced that the impost is undesirable that we shall cordially welcome its abolition, whatever may be the motive force by which the Chancellor and his technical advisers are driven to the conclusion that they ought to abandon it.

Nine Months' Trade.

ALTHOUGH there are many signs that trade has fallen off at home, there is as yet little or no evidence of it in overseas business, and the September Board of Trade Returns, which complete the figures for the first nine months of the year, somewhat contradict the pessimistic statements which have been made in responsible

quarters as to the trade outlook. No doubt the October returns will reflect the actual position more accurately. Taking the imports for September, we find there is an increase of 4,103,800l., the total amounting to 152,692,000l. It is significant, and not altogether satisfactory, that we increased our imports of manufactured goods by 124 millions sterling, while our imports of raw materials declined by $12\frac{1}{2}$ millions. If the reverse had been the case there would have been cause for congratulation. The fall in raw materials was due to heavy declines in imports of oil-seeds, nuts, oils, fats, resins, and gums, which were 7,836,000l. less, the total receipts amounting to 5,216,000l. Linseed, rape, copra, palm kernels, acacia gum, resin, and shellac were the chief articles affected. Kauri seems a reviving industry for London, with arrivals of 12,708 cwt. for the month, which compares with 24,780 cwt. for September of the pre-war year 1913. Receipts of refined and unrefined olive oil continue extremely meagre-only 65 and 64 tons respectively. Raw cotton registered a fall of 7,225,000l., and, as with oil-seeds, etc., the decline was in quantities and not in prices. In the earlier months of the year imports of these raw materials were very heavy however. Among manufactured goods, chemicals, drugs, dves, and colours were 1,282,000l, more, at 3,179,000l. Finished coal-tar dyes from Germany arrived in much larger quantities, almost up to the pre-war year of 1913, including 681 cwt. of synthetic indigo, and almost a million sterling for "other sorts" of finished dyes. Cream of tartar imports were large—5,153 cwt. (68,5941.) while the receipts of tartaric acid, including tartrates, were only 464 cwt. (7,726l.). Potassium compounds (excluding nitrate) were valued at 178,000l., and of unenumerated chemicals the imports were valued at 400,616l., against 153,000l. in September last year, and 218,000l. in September 1913. Crude drugs and medicines fell from 358,000l. to 255,000l. Comparing the quantities and values of our imports in the chemical and drug category, it appears as if we are still paying very high prices for our semi-raw and manufactured products. In the manufactured oils, fats, and resins section there were much larger receipts of turpentine (58,530 cwt.) and paraffin wax (213,483 cwt.), but the biggest advance was in petroleum, due to the rise in price, as the 83,961,000 gallons imported cost 6,670,000l., whereas at the corresponding date of last year 71,258,000 gallons cost 3,007,000l. only. On the export side of the account there is an increase of 50,955,000l., the total shipments amounting to 117,456,000l. There was again a remarkable expansion in exports of home-made goods, the total reaching 102,216,000l.—a rise of 50,504,000l.—so that September trade had an unusual spurt: Cotton goods increased by nearly twenty millions sterling, but almost every branch of manufacture showed an advance. Chemicals and allied products were up by 1,984,000l. to 3,943,000l. Rawmaterial exports were down by 1,448,000l., most of this being due to coal, and there was a slight increase in the exports of food, drink, and tobacco by 1,446,500l. The chemical figures reveal a fair amount of activity, outstanding features being the large quantities of glycerin (principally crude) exported-36,027 cwt.-there no doubt being a shortage in America. The trade in dyes and dveing and tanning extracts amounted to 27,293 cwt., compared with 15,084 cwt. in 1913, and sodium compounds reached 678,480 cwt., against 637,586 cwt. in 1913. There was also a sharp advance in the exports of drugs, medicines, and medicinal preparations, the figures attaining 518,329l., against 322,514l. in September 1914 and 210,821l.

Grand total

in September 1913. Of greater interest is the nine months' trading in chemicals, and we select a few of the more important items:

Nine months ended September 30.

			1913	1919	1920		
Acid sulphuric		(cwt.)	121,504	28,876	83,474		
			£45,970	£30,617	£102,905		
Acid tartaric	٠.	(cwt.)	10,287	6,876	19,591		
			£55,066	£112,654	£334,106		
Ammon, chlor.		(cwt.)	3,500	4,257	6 ,0 68		
			£92,880	£251,080	£392,405		
Ammon. sulph.		(tons)	238,228	56,318	76,118		
			£3,264,105	£1,398,926	£2,451,717		
Bleaching powder	٠.	(cwt.)	544,247	264,162	333,303		
			£126,957	£216,900	£383,438		
Coal tar products Copper sulphate			£1,178,858	£1,062,405	£2,139,857		
Copper sulphate	٠.	(tons)		29,356	17,810		
			£1,654,065	£1,615,051	£700,054		
Glyccrin	٠.	(cwt.)		42,432	253,833		
			£620,304	£249,511	£1,282,952		
Potassium compou	$_{ m nds}$		£194,517	£186,520	£665,685		
Sodium compounds	٠.	(cwt.)		4,577,429	6,843,574		
			£1,367,082	£2,746,706	£5,248,745		
Chemicals, all other		ts	£1,955,716	£3,589,506	£5,947,953		
Drugs and medicin			,	£3,214,314	£4,053,856		
Dyes and dyestuffs	3 : .	(cwt.)		104,903	244,764		
	_		£233,244	£1,080,389	£2,629,271		
Painters' colours and materials							
		(cwt.)		937,594	1,096,606		
m			£2.430,100	£3,347,292	£4,153,781		
Zinc oxide		(tons)	1,992	904	1,426		
			£43,169	£69,512	£104,421		

It will be seen from the above figures that, compared with the pre-war year 1913, the total value is more than double, but the table also shows that the weight of our exports as a whole is considerably below the first eight months of 1913. What is now wanted is a gradual deflation of values and a larger volume by weight of exports, which would mean more employment and increased earnings. Altogether the results of the nine months' working are encouraging, inasmuch as the adverse balance of trade continues to decrease. There are, however, significant signs of an all-round slackening of trade activity, which will be reflected this month and onwards.

., £15,018,286 £19,171,383 £30,591,146

Preventing Venereal Disease.

An unexpected protest against the folly of preventing the sale of properly labelled venereal antiseptics is contained in the report of the Association of Moral and Social Hygiene. We learn from "The Hospital" that the Association appointed a committee to inquire into the conditions of sexual morality in this country, with special reference to the improvement of the laws and their administration. The part of the report which interests us is the statement that the Association object to Section 2 (2) "because it goes beyond the penalisation of quacks, since it also prevents any pharmaceutical chemist from recommending or offering for sale any drug, etc., for the treatment of venereal disease." "A chemist is not prohibited from prescribing for any other disease," and the committee doubt the expediency of treating venereal diseases, in this respect, differently from other diseases. They recommend, therefore, the repeal of the provision, being of opinion that the prohibition of treating disease to others than qualified practitioners "is inconsistent with the freedom of research which is essential to scientific progress."

RADIUM MANUFACTURE.—According to the "Birming-ham Weekly Post," twelve tons of ore, three tons of hydrochloric acid, five tons of carbonate of soda, one ton of sulphuric acid, and ten tons of coal are required to make 100 milligrammes of radium bromide. This involves a month's work and 500 successive crystallisations.

Suggested Teucer Combination.

In connection with the meeting of retail chemists called to protest against the Proprietary Medicines Bill which is reported in this issue, Mr. S. F. Body brought forward a scheme for a combination of retail chemists which would enable them to combat the growing menace of large corporate bodies in pharmacy. A draft of the objects of the Association, which it is proposed to call Teucer, Ltd., was circulated with the invitations, and at the meeting an exhibition of Teucer products was held. Mr. E. A. Wilson and Mr. A. Barker, directors of the Turner Drug and Galenical Co., Ltd., Ilford, also showed products, it being suggested that a working agreement might be arrived at between the companies to mutual advantage. A committee was formed to examine Mr. Body's proposals,

Mr. Body explained his scheme, which is that unorganised retail chemists who are makers of proprietary articles should form a combination, with headquarters in London, for the purpose of manufacturing, registering, and distributing proprietary articles. Suitable products would be acquired from the shareholders on a royalty basis for distribution, and the manufacture would be centralised in one establishment for the purpose of securing the benefits of mass production. Considerable economy would be effected in the purchase of materials. At first it might be desirable to work in concert with some wholesale house, such as the Turner Drug and Galenical Co.

be desirable to work in concert with some wholesale house, such as the Turner Drug and Galenical Co.

The formation of a company of this kind would be much on the lines of "Ucal," with specific differences as to agencies. The profits, if distributed, should be in proportion to the business which is effected by the constituent members with the company's products. Mr. Body contended that there is plenty of scope for Teucer agencies without damaging Rexall or Ucal business, but the scheme could not be attempted by loyal supporters of Rexall and

Ucal unless these agencies were relinquished.

In reply to questions, Mr. Body said that all the names used in connection with the Teucer products are registered, and that the selection of articles to be manufactured by the combination would be made on points of originality and merit. These articles would be acquired for a consideration, such as shares in the company, and a royalty on the sales. He saw no reason why the company should not develop its own drug and sundry supply system. Mr. Body then outlined a scheme for local amalgamation of businesses, setting forth the advantages which would accrue. Each member of the combination would cultivate his special knowledge on such subjects as optics, photography, etc. The London company would be quite distinct from the local companies, but agency conditions would necessitate certain shares being held in the central company.

company.

Mr. LLOYD (Birmingham) said he attended at the request of some Birmingham pharmacists. The scheme interested him because he had had much to do with the early work of Rexall and Ucal. Not all that Mr. Body had said was practical, and much could only be carried out by a large amount of capital and much organisation. He did not believe that the combination could command the brains of an organisation like Rexall. Rexall is a splendid organisation, and it is a pity that the capital that has purchased Boots is not English

that has purchased Boots is not English.

Mr. WRIDE said Mr. Body had at least put forward something to be investigated, which practical men could

sift

Nominations were then submitted for a committee, the following being appointed: Messrs. E. T. Neathercoat, S. T. Evans, R. S. Wride, H. O. Lloyd, C. W. N. Fox, and S. H. Campion. Mr. S. F. Body and Mr. E. A. Wilson are to act as ex officio members. Mr. A. J. Hall, 43 Cotswold Road, Westcliff-on-Sea, was appointed secretary pro tem.

It was agreed that the initial expenses should be subscribed in equal shares by those present.

Reviews of Books.

A Text-book of Materia Medica, being an Account of the more Important Crude Drugs of Vegetable and Animal Origin. Designed for Students of Pharmacy and Medicine. By Henry G. Greenish, F.I.C., F.L.S. 93 by 6 in. Pp. 568, with 250 illustrations. Third edition. 27s. net. (London: J. & A. Churchill.)

It is more than twenty years since Professor Greenish conceived the idea of publishing a book on materia medica, and in the interval which has elapsed the work has become recognised as one of the standard text-books for pharmaceutical students. This, the third edition, is likely to meet with an equally cordial reception as its predecessors, inasmuch as the study of materia medica is brought as it were up to date. Although there are about seventy pages less in the present edition, much more information has been compressed in the lesser space, and, by the use of a rather smaller type and the omission of a few full-page illustrations which occupied a good deal of space without adequate advantage, the author has made a necessary and wise deletion in these days of high cost of production. Among the features which distinguish this edition from its predecessors is the addition of a very considerable number of brief paragraphs, these including a description and methods of preparation of Japanese vegetable wax, carnauba wax, Chinese insect wax, which follow the monograph on beeswax (p. 516); ambergris (under spermaceti), and various descriptions of manna (under manna). Senna and buchu substitutes are treated in like manner at the end of the respective monographs, and the concise descriptions given are sufficiently lucid to enable, say, a drug importer or merchant to detect the various substitutes from the genuine drug. Several pages have been devoted to the drying and preservation of drugs, which give some very practical hints as to collection and also indicating the changes which take place in drugs by the action of enzymes during the drying process. Another feature is the inclusion of all the Indian and Colonial drugs added to the British Pharmacopæia in 1914, and brief reference is also made to drugs in less frequent use—e.g., under "Leaves" we find a description of Paraguayan tea or maté, damiana, wintergreen, boldo, matico, tylophora, etc. The pages devoted to the collection and preparation of drugs for the market have been thoroughly revised, and the chemical tests for constituents of each drug are given in more detail than before. Pharmaceutical students as a body are weak in their knowledge of assay processes and the constituents of drugs, and that is why Professor Greenish gives the subject special attention. The section on fixed oils, fats and waxes has been considerably extended, those included in the British Pharmacopeia and several others having succinct paragraphs indicating the source, etc., description, constituents, uses and adulterants. Otherwise the subject-matter of the book is essentially the same. The chapter on the history and commerce of drugs is retained, including also the many routes by which drugs reach the market, the various forms of packages, and the method by which drugs are sold. The arrangement of the sections, of which there are twenty-one-viz., leaves, Professor flowers, fruits, seeds, etc.—is adhered to. Greenish in his preface emphasises the need of accurate observation and strongly advises the student to make the study of crude drugs practical as far as possible. This book tells him how to do it in an easily assimilable form, and the facts as presented could not be more clearly expressed. In the list of resins largely used for technical purposes (p. 473) one of the most important, New Zealand kauri, is omitted. "Elemi" says Professor Greenish, "is now seldom prescribed," but at the same time there is a regular demand for it in commerce. Indian belladars of (p. 460). donna root (p. 360) is now cultivated as well as collected from wild plants. Under valerian (p. 330) mention should be made of the fact that Belgium is a most important source of supply. The statement that "Jamaica" sarsaparilla is now sent chiefly to New York and thence to

England requires revision, as for the past ten or fifteen years the genuine grey Jamaica variety has practically all been exported to London direct from Bocas del Toro. Under cardamoms mention should be made of the Tellicherry variety, which is regularly imported to England from the Wynaad district; also the "Aleppy" variety, imported from India. Mention should be made of the fact that Indian podophyllum rhizome is now official as well as the American variety, as there is an increasing demand for the cheaper-priced Indian, while the yield of resin is much higher. Brazilian jalap (a commercial article about which little has been published), papain, and tuba root are drugs which might be referred to in future additions. editions

Festivities.

Leicester Chemists' Whist-drive.

THE Leicester and Leicestershire Chemists' Association held a successful whist-drive and supper on October 7 at the Oriental Café. The President (Mr. W. J. Lewis) welcomed the members and friends, who numbered 113. A halt was called for refreshments, and at the close of play Mrs. Lewis, the President's wife, was successful in winning the first prize for ladies, while Mrs. Corton received the second. Mr. Britain (A. De St. Dalmas) succeeded in winning the first prize for gentlemen, and Mr. Goody carried off the second prize. Mrs. Tomlin and Mr. Rowe were awarded "Mystery" prizes.

Manchester Chemists' Whist-drive.

THE Manchester Pharmaceutical Association held the opening meeting of the session on October 6 at the Midland Hotel. Mr. John Cleworth (President) and Mrs. Cleworth received the guests, who numbered nearly 100. The meeting took the form of a combined whist-drive and concert. During an interval refreshments were served, after which musical and elocutionary items were rendered by various friends almost entirely connected with pharmacy. At the close of play the President presented the prizes to the winners. Mrs. Grime was awarded the 1st ladies' prize, Mrs. Clegg 2nd, and Miss Hindle 3rd; the gentlemen's prizes being awarded to: Mr. Scholes, 1st; Mr. Walters, 2nd; and Mr. James Grier, 3rd.

St. Vincent Association's Annual Dinner.

Members of the St. Vincent Association assembled in force at Anderton's Hotel, Fleet Street, London, on October 8, under the presidency of Mr. S. J. Massey (Meggeson & Co., Ltd.), to celebrate the annual dinner. "The Association" was proposed by Mr. W. P. Walsh, and, in his reply, Mr. Massey outlined the history of the work of the Association. Among those present were the following: Messrs. A. R. Arrowsmith (Apollinaris Co., Ltd.); Vincent Dodds, Kay, and Green (Meggeson & Co., Ltd.); L. and G. Cooper, W. H. Izod, and F. Beale (The Charles H. Phillips Chemical Co.): R. R. Coates (Hoff-Ltd.); L. and G. Cooper, W. H. Izod, and F. Beale (The Charles H. Phillips Chemical Co.); R. R. Coates (Hoffmann La Roche Chemical Works, Ltd.); F. A. Rogers (British Colloids, Ltd.); J. L. Beverley (Burroughs Wellcome & Co.); C. B. Shemmonds and F. Peck (Genatosan, Ltd.); D. Weir (Lysol, Ltd.); G. A. Calnan (Glaxo); C. F. Pitt (C. J. Hewlett & Son, Ltd.); W. Sanford and G. D. Bowie (Duncan, Flockhart & Co.); A. H. Millner (S. Maw, Son & Sons, Ltd.); G. White Taylor (Sangers); W. Daniel (Baiss Bros. & Co., Ltd.); E. H. Newman (Savory & Moore, Ltd.); H. E. and L. V. Curtis (Walton & Curtis); H. B. Everson (Hopkin & Williams, Ltd.). An excellent entertainment, under the direction of Mr. A. H. Millner, was provided.

FOR CLERGYMAN'S SORE THROAT?—The current issue of the parish paper of St. Jude-on-the-Hill, Hampstead Garden Suburb, London, N.W., contains the following note: "The churchwardens would like to know the medical parameters of the churchwardens would like to know the medical parameters of the churchwardens." cinal properties of the tabloid placed in the offertory bag last Sunday evening, before they pass it on to the vicar.

Associations' Winter Session.

Bath.—The annual meeting of the Bath Pharmaceutical Association was held on October 6. Mr. Hallett read the report for the past year, which was adopted, and Mr. Loveless proposed a vote of thanks to the retiring President (Mr. Moore). Mr. D. J. Williams was then elected President; Messrs. Moore and Broad as Vice-Presidents; and Mr. Cooper Treasurer. On the Committee, Mr. Dickenson replaced Mr. D. A. Evans, and Mr. Hayes was selected as an additional member. Mr. D. A. Evans will continue to act as joint secretary with Mr. P. J. Thompson for Insurance work. A report from the South-Western Federation was read, and Mr. Broad related that the conclusions of the Bath Association were practically adopted at Bristol (higher wages according to ability).

Dublin.—The Dublin Retail Drug Association held a committee meeting on October 6, Mr. D. M. Watson (President) in the chair. The following were also present: Messrs. R. White, J. A. Mitchell, G. A. McLean Lee, A. Owen Wells, Robert Mellon, J. R. Middleton, R. E. Campbell, Geo. Brown, W. F. Ellis, and Robert J. Kidney, secretary. The following were elected members of the Association: Messrs. Denis Boland, Blackrock; J. W. Hogan, Longford Drug Co.; T. J. Nolan, South Richmond Street, Dublin; and Mrs. M. Holohan, Stradbally, Queen's Co. The hon. treasurer submitted a statement of accounts, and arrangements were completed in connection with the annual meeting held on October 11.

Ealing.—The Ealing Pharmacists' Association held the opening meeting of the session on October 12. The President (Mr. Ironmonger) was in the chair. The secretary (Mr. Marns) read his report, and the President introduced Mr. John Keall, who addressed the meeting. Mr. Keall said he supported the work done by the Council, especially with regard to the Proprietary Medicines Bill and the Dangerous Drugs Act. He went on to speak of the immense amount of work done at Bloomsbury Square in the interests of discharged soldiers. As one who is on the Council of the Proprietary Articles Trade Association and also the Chemists' Defence Association, he spoke with inside knowledge about the work of these two Associations.

Association met on October 7, Mr. Hutton (President) in the chair. Mr. Robinson (Coventry) and Mr. Winfield (Solihull) were elected to attend the West Midland Federation on October 21 as delegates for the county. Infringements of the Pharmacy Act by general dealers in the district were reported, and members are asked to communicate with the secretary wherever such cases occur. The Proprietary Medicines Bill was discussed, the general feeling being that the proposed Bill, as it stands at present, deals very hardly with registered pharmacists, and it was decided to communicate with the Local Associations Executive on several points. The question of recommending the formation of an Industrial Council for the retail trade was deferred until after the result of the test-case was known. Mr. Nundy, hon. treasurer, gave notice of motion that the annual subscription to the Association shall be increased to 10s. 6d.

London.—A meeting of the Western Pharmacists' Association was held on October 13 at Pinoli's Restaurant, Wardour Street, W., the President (Mr. H. S. Watson) in the chair. There was a good attendance. After several new members had been elected, a letter was read from the London Pharmaceutical Committee on the subject of dispensing for boards of guardians; it was agreed that the Committee of the Association be empowered to deal with the matter. A letter from the Clayton Aniline Co., Ltd., was referred to the Local Associations Executive; and the steps to be taken in connection with the Pharmaceutical Society's Roll of Honour were discussed. The President then called on Mr. E. T. Neathercoat, President of the Pharmaceutical Society, to address the meeting on Pharmaceutical Topics. After a brief account of the work

of the Council of the Society in modifying or removing certain clauses in the Dangerous Drugs Bill, Mr. Neathercoat discussed the industrial situation. He observed that the scheme for an Industrial Council had broken down, and that the Pharmaceutical Society was awaiting the result of the test case. Many of the newly qualified men were in a difficult position; instead of the 400 to 500 normally qualifying each year, there were at present something like 1,500 to 2,000, and the position was aggravated by our habit of improvising during the years of war. Some basis of settlement in this connection must, undoubtedly, be found. He felt that the matter was not to be settled by a fixed standard of wages; there must be mutual accommodation. Dealing next with the Proprietary Medicines Bill, Mr. Neathercoat reaffirmed the Suggestions for emendation made by him at a recent Council-meeting (C. & D., October 9, p. 83), with the addition that Clause 9 of the Bill should be strengthened in favour of pharmacists. A very vigorous and, if necessary, a very sustained defence of the rights of pharmacists by the Council might be looked for. On the subject of education, he urged that the policy of the Society must advance with the times. The consultative council of the Ministry of Health had taken pharmacists within its purview; and a scheme for the readjustment of the Pharmaceutical Society's Major examination was being considered. In conclusion, Mr. Neathercoat drew attention to the question of organisation in pharmacy, and congratulated the Association on the election of Mr. Watson as a Vice-President of the Metropolitan Federation. A brief discussion was opened by the chairman, who called attention to the lack of practical shop experience in the cases of some of the newly qualified men. The discussion was continued by Mr. Melhuish, Mr. Shenstone, Mr. W. Browne, and Mr. Shirtliff; it was suggested by Mr. Shirtliff that the Pharmaceutical Society might give trade matters more attention, and as a case in point he instanced the recent disclosures concerning anthrax in shaving-brushes. Neathercoat briefly replied to the speakers, and a cordial vote of thanks was passed on the motion of the chairman. At the close of the meeting, the President and Mr. Neathercoat drew attention to the Harrison memorial fund, further contributions to which are needed, and emphasised in sincere and eloquent terms the claims to remembrance of a very distinguished son of pharmacy.

Stoke-on-Trent. The opening meeting of the North Stoke-on-Trent.—Ine opening meeting of the NOrth Staffordshire Chemists' Association was held at Stoke, on October 7, when Mr. G. E. Marfitt, Leicester, read a paper on Window Display. Mr. Ernest M. Mellor (Uttoxeter), President, occupied the chair, and before the paper was read Mr. T. Bentley (Stoke) was appointed delegate to the fortherming meeting at Bismingham of the West Midthe forthcoming meeting at Birmingham of the West Midland Federation of Local Associations. Mr. Ernest Mellor reported that he had interviewed Sir Wm. Glyn-Jones at the Chemists' Exhibition as to whether their local chemistry classes would count under the new curriculum, and it was agreed that the President and secretary should interview the local Director of Education on the matter. In his paper Mr. Marfitt said that, compared with Press and handbill advertising, the pharmacist would find his window pay him best. The pharmacist had an advantage over other traders in that he had a range of goods suited for every season of the year. After indicating the features to be aimed at, or avoided, in window dressing. Mr. Marfitt suggested that where pharmacists are on friendly terms, let them all show the same goods at the same time, and get the advantage of collective advertising. They had tried this successfully in Leicester. The principle article of the display, he said, should be on a level with the eye of the passer-by. He advocated also the getting into touch with a good ticket-writer. The lecture was illustrated by photographs.

The Despatch Counter.—In his address at the opening of the Glasgow Veterinary College recently, Captain W. F. Elliot, M.C., M.P., declared that there was too much of the force-pump about education. Students, he said, came up like empty medicine bottles, were put in a row, filled with the magic fluid, corked, and sent out.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres. ENGLAND.

Blackpool: - During the six months ended on June 30, 25,442 prescriptions were issued, the average cost per prescription being 10.15d.

Smethwick.—At a meeting of the Insurance Committee, held on October 5, the reports of the various sub-committees were received. The Medical Benefit Sub-Committee gave the following statistical data, supplied by the Pricing Office:

,		Quarter	Half-year
		ended	$_{ m ended}$
		June 30	June 30
Number of prescriptions issued		20,992	45,136
Cost of ingredients		331l. 1s. 11d.	6831. 17s. 4d
,, dispensing-fees		444l. 1s. 8d.	956l, 10s, 3d
Average ingredient cost		3.79d.	3.64d.
" dispensing-fee		5.08d.	5.09d.
,, eost per insured perso	n	6.17d.	13.20d.

The Finance and General Purposes Committee reported that payments to chemists (June balances and July advances) amounted to 253l. 12s. 1d. and (July balances and August advances) 238l. 10s. 2d. The sum credited to the Drug Fund for 1920 is 2,029l.

Warwickshire.—The Pharmaceutical Committee met at Learnington on October 7. The report of the Central Checking Bureau showed the average total cost for 1919 was 1s. $9\frac{1}{2}d$. (nearly), as against 1s. $10\frac{1}{2}d$. (nearly) in 1918, the average cost per prescription being 8.59d. in 1919 and 7.94d. in 1918. Panel chemists are requested to see that urgent prescriptions dispensed after hours are marked clearly with time of dispensing and the dispenser's signature. The advance payment per script has been advanced to 9d., as against 5½d. previously. It was decided to call the attention of the Pricing Office to several errors in pricing, also to draw the attention of the Checking Bureau to the increasing number of articles being included under the non-extemporaneous-fee class.

SCOTLAND.

Caithness.—At a recent meeting of the Insurance Committee it was intimated that 3031. had been paid for drugs (258l. to chemists and 45l. to doctors who dispense) for the period January to June. Chemists' accounts for April amounted to 521., as against 471. for the same month last year; May, 39l., as against 22l.; and June, 35l., as against 32l. The amount available to the Caithness Insurance Committee for the payment of chemists during 1920 is 510l.

Bankruptcy Report.

Re Philip Phineas Keats, chemist, 167 Mary Street, Balsall Heath, Birmingham. The public examination of this debtor was held on October 6 at Birmingham before Mr. Registrar Whitelock. Mr. A. S. Cully (Official Receiver) applied for an adjournment and stated that the debtor had been committed to the assizes for trial on a criminal charge, and the public examination involved the going into of some of the matters which were the subject of the charge preferred against him. The examination was adjourned.

Druggists are by education and training taught to be cool, but alert in time of accident and emergency. Their daily work has to do with human lives which are in the balance.—H. M. Whelpley.

Diagnosis by "Wireless."—Appendicitis was recently diagnosed, and advice given, by a ship's surgeon who, while at sea, received wireless communications on the subject from a tramp steamer many miles away.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration. See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade-marks Journal," October 6, 1920.)

ATRINAL BRAND A PHARMACEUTICAL PRODUCT," "THEOBRYL BRAND A PHARMACEUTICAL PRODUCT"; for pharmaceutical products (3). By the Hoffmann-La Roche Chemical Works, Ltd., 7 and 8 Idol Lane, London, E.C. 3. 404,064; 406.045 406,045.

406,045.

"FLUECIDE," "MALARIACIDE," and "ARTHRICIDE"; for medicinal chemicals (3). By N. Couve, 20-22 Sir William Newton Street, Port Louis, Mauritius. 405,501/502/503.

"AYRTOIDS"; for all goods (3). By Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool. 405,601.

"MAXIMOL BRAND AN INHALANT"; for medicinal inhalants (3). By John Morgan Richards & Sons, Ltd., 46 and 47 Holborn Viaduct, London, E.C. 1. 406,000. (Associated.)

47 Holborn Viaduct, London, E.C. 1. 406,000. (Associated.)

"FLIPS"; for headache, neuralgia and rheumatism powder and tablets (3). By W. Butterfield, 512 Lytham Road, Blackpool. 405,970.

"LUMEX"; for photographic cameras (8). By Lumex, Ltd., 31 Dame Street, Dublin. 404,988. (Associated.)

"Chocola" and "Brisko" under device of statue of James Watt ("Chocola" and "Brisko" disclaimed); for all goods (44). By Greenock Apothecaries & Lawsons, Ltd., 3 Clarence Street, Greenock, Scotland. 403,906/7. (Associated.) 3 Clarence Street, Greenock, Scotland. 403,906/7. (Asso-

3 Clarence Street, Greenock, Scotland. 100,007, ciated.)

"REGESPA"; for mineral waters, etc. (44), and for perfumery, etc. (48). By Regesan, Ltd., Trent Street, Nottingham. 405,866/867. (Associated.)

"SOLIFLOR"; for perfumery, etc. (48). By A. M. Evans, 15 4Church Lane, Harpurhey, Manchester. 406,293.

"LATTOLIA"; for perfumery, etc. (48). By J. & E. Atkinson, Ltd., 24 Old Bond Street, London, W. 1. 406,283.

"OSLAN"; for dentifrices (48). By the Myrol Dental Co., 82 Lowther Street, Whitehaven. 406,368.

"MILADY"; for face powder (48). By Yardley & Co., Ltd., 105 Carpenters Road, Stratford, London, E. 15. B 407,429.

(From "The Trade-marks Journal," October 13, 1920.)

(From "The Trade-marks Journal," October 13, 1920.)

"SUNSHINE": for chemical dyes (1). By J. F. Hunter, 8 High Street, Dingwall, Scotland. 405,537.

"HOMCOBOLIC"; for disinfectant soap (2). By the Hull Oil Manufacturing Co.. Ltd., West Carr Lane, Stoneferry, Hull. 406,244. (Associated.)

"FONDA"; for medicinal chemicals (3) and for perfumery, etc. (48). "GLAXSTOMA" and "PAXSTOMA"; for food substances (42). By Margaret I. Henderson, 125 Sussex Road, Southport. 398,380/381; 399,211/213.

"TINY Tor" and seal device of baby lying on powder puff (seal device disclaimed); for medicinal chemicals (3). "REXALL"; for perfumery, etc. (48). By the United Drug Co., 114 Old Hall Street, Liverpool. 402,510; 404,572. (Associated.)

404,572. (Associated.) "KATOPASMA"; for medi ATOPASMA"; for medicinal chemicals (3). By A. S. Crofts, 43 Norland Road, Notting Hill, London, W. 11.

404,268.

"PAX"; for medicated wines (3). By Winox, Ltd., Myrtle House, Kew Foot Road, Richmond, Surrey. 404,736. (Associated.)

"Bellafolin" and "Bellafuren"; for medicines (3). By Sandoz Chemical Works, 60 Fabrikstrasse, Basle, Switzerland. 406,116/117. (Associated.)
"Tragasol"; for all goods (47). By the Gum Tragasol Supply Co., Ltd., Hooton, Cheshire. 406,597. (Associated.)

ciated.)
LASHIUX''; for an eyebrow and eyelash preparation (48).
By G. W. Ross, 24 East 23rd Street, New York, U.S.A.
400,585.

Gazette.

Bankruptcy Acts.

RECEIVING ORDER AND ADJUDICATION. Rogers, A., 36 High Street, Normanton, York, drug-stores proprietor, under the style of Rogers & Rogers.

Partnership Dissolved.

PARKER, G. C., OXLEY, MARY, and NAUE, F.H.C., 38 Lime Street, London, chemical merchants, under the style of Parker, Oxley & Naue.

Pharmaceutical Optics.

FOLLOWING up the recent specification of goods to be stocked by the photographic chemist, a correspondent deals with optics for chemists. He writes: "For a pharmacist to open an optical department presnpposes a practical and theoretical knowledge of refraction work, and also preferably the diploma of the Spectaclemakers' Company or the British Optical Association. This, of conrse, requires a study of the subject, and places optics in a different category from those lines which can be taken up with the technical knowledge a chemist already possesses; and, further, optics requires a special room set apart for sight-testing and the necessary available time should be 20 ft. long, this being the infinity distance to which test-types are calculated, or, if this sized room is not obtainable, reversed types may be used with a mirror; the room should be free from decorations or from odd stock lying about to divert the enstomer's attention. and is best papered with a plain dark-green paper, a good light, shaded from the customer's eyes, is required to illuminate the test-types, and another one snitable for retinoscopy. Two chairs, and a table for the trial case, are all the furnithre really necessary; but, of course, the pharmacist will snit his pocket as to the fixtnres, all sorts of luxury fittings being obtainable, such as adjustable wall brackets for trial cases and frames, etc. It is best to get a good and complete trial case to start with and an adjustable trial frame. The man who has taken his diploma will probably already possess his own, but in the better ones the lenses are mounted, and they also contain prisms, discs, Maddox rod and groove, etc., which are sure to be wanted sooner or later. Nearly every refractionist has his own preference as to test types; the com-bination charts are convenient, having the astigmatic fan, letters, and prism tests all together; but there is a tendency for the customer's attention to be divided instead of fixed on the test of the moment, and, personally, I use separate charts, preferring a little extra trouble in changing them. It is wisest to have two or three different letter-types, as after one eye has been tested the person begins to learn the letters off by heart, so that another type should be put up for the other eye. A proper prescription-book should be kept, giving full details of the customer's name, age, result of subjective and objective tests, lenses given, frames, and price. The actual stock need not be large to start with, as a considerable percentage of orders will call for sphero-cylindrical lenses, rimless clips, or some special size of frame, and these can be obtained from the jobbers as required. Besides, the average spectacle customer expects to wait a day or so for the lenses to be cut, and does not require them handed ont in two seconds like the Insurance patients. A small number of frames and astigmatic clips, and the eye-size lenses up to 3.0D, can be stocked for simple cases such as reading-glasses. For fitting rimless clips it is best to get a sample set glazed with plano lenses for trial purposes, as if fitted without the lenses the added weight entirely alters the adjustment. Cases, both snap and frog-mouth, and a few assorted eyeglass chains will be required, while motor goggles, lorgnettes, tinted spectacles, opera-glasses, etc.. can be added at discretion as the business develops. It must be remembered that the sale of gold and silver articles over two and five pennyweights respectively requires a plate licence. tising and window-displays the optical trade is rather behind-hand: there are none of the attractive showcards provided with opening orders or with special lines as with photographic sundries or packed goods, and the chemist must use his own ideas-colonred glass blocks, opal plates with wording, velvet and other stands for frames, are the usual show materials, backed up by framed diagrams of the eye or the pharmacist's optical diploma. Electros for advertising can be bought ready-made, and leaflets with advice on eye troubles are frequently used, but there is good scope for some striking and original novelties in optical advertisements. Appended is a list of the mini-

mum requirements of stock and apparatus. It is difficult to give exact prices, as at present they are finctnating; but in pre-war times the apparatus amounted to 15l.~18s.~9d., and the stock to 12l.~19s.~6d. This will give some guide as to the first ontlay, and any of the optical houses advertising in the C.~d.~D. would doubtless give current figures on application."

Optical Apparatus and Show Material. (At pre-war prices.)

		-	-			£ 8.	d.
1 only tri	al case complet	e				10 10	0
1 only adj	ustable trial fra	ame				1 16	0
3 only let	er types, assor	ted (9d.	each)			0 2	3
1 only clo	ck-face chart .					0 0	9
1 only Ma	addox prism ch	art				0 1	6
1 only Co	vell's reading ty	vpes				0 1	-0
1 only ret	inoscope with o	condenser				0 6	0
1 only op	tician's rule					0 1	6
2 only pli	ers					0 1 0 3	0
1 only scr	ewdriver .					0 0	ó
1 only joi	nt-holder					0 0	9
1 only pre	escription recor	d-book				0 4	0
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A Concentrated Developer.

A HIGHLY concentrated single solution p-amido-phenol developer of the rodinal type is recommended by Ermen ("Brit. Jour. Photography," lxvii., p. 611). The keeping qualities of this developer are described as exceedingly good. It has no undesirable effect on the skin, and is of greater activity than the original rodinal. This solution when diluted with four times its volume of water will develop a plate in about one minute. Diluted 1 in 20 it is suitable for gaslight papers, and at 1 in 40 a correctly exposed bromide print requires just over one minute for development. A solution is made by dissolving 90 grains of potassium metabisulphite in 50 oz. of boiling water, and after allowing to cool add 1½ oz. para-amido-ortho-cresol hydrochloride and 5 oz. hydrokinone. To this solntion is added 15½ oz. potassium meta-bisulphite, when a precipitate is formed. Sufficient of a 353 per cent. (weight in weight) solution of caustic soda is now cantiously added (about a pint being required) until the precipitate is just dissolved, and the whole allowed to stand until normal temperature has been reached. A small amount $(\frac{3}{4} \text{ oz.})$ of potassium bromide is now added and sufficient water to make 80 oz. Should there be a precipitate at this stage a few drops of caustic-soda solution should be added, care being taken not to add excess or the developer will be rendered unstable. In fact, it is advisable that a trace of the precipitate should remain undissolved.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, wherehy values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in hulk quantities.

42 Cannon Street, E.C. 4, Oct. 14.

Business conditions remain much as previously reported, with buying strictly hand-to-mouth so far as the home trade is concerned; in fact, it looks as if the wholesale trade are getting down their stocks to an absolute minimum, and replenish only when necessity dictates. Prices still continue downwards, and some holders are inclined to force the pace, particularly in fine chemicals, such as bromides, aspirin, and salicylates, all of which are very English refined camphor flowers are 1s. per lb. Cocaine, barbitone, chloral hydrate, caffeine, creosote carbonate, formaldehyde, methyl salicylate, sulphonal, potash sulphoguaiacolate, gallic and pyrogallic acids, phenazone, and phenolphthalein are being offered at cheaper rates, and some items are being freely cut. Saccharin (export) is lower. Citric acid is easier: cream of tartar and tartaric acid are nominally unchanged. Methylated ethers have been reduced 2d. per lb., following the recent decline in s.v.m. Vanillin is a trifle firmer. Lycopodium and fennel-seed are dearer, and dill is firmer. Most fixed oils, with the exception of olive, are generally lower, particularly linseed. Copper sulphate and soda bichromate are easier. Turpentine is lower.

Higher	Firmer	Easier	Lower
Fennel-seed	Bergamot oil.	Agar agar	Camphor (Eng.
Lycopodium	(forward)	Ammon.	flowers)
	Dill seed	bromide -	Cocaine
	Vanillin	Anise oil, star	Chloral hydrate
		Aubepine	Cotton oil,
		Balsam tolu	erude
		Barbitone	Creosote
		Bromstyrol	carbonat
		Cadmium	Diphenyl oxide
		Caffeine, pure	Ethers,
	1	Cajuput oil	methylated
		Camphor	Formaldehyde
		(Jp. ref.)	Lead products
		Citric acid	Linseed
		Coconut oil	Linseed oil
		Copper sulphate	Liquorice-juice
	1	Coumarin	Methyl
		Farina (Jp.)	salicylate
		Gallic acid	Orange cil
	1	Hvdroquinone	(Sic.)
		Jalap	Palm oil
	'	Mint oil (Jp.)	Peppermint oil
		Paraldehyde	(Amer.)
		Pepper	Petrol
		Petitgrain oil	Petroleum
	1	(Parag.)	Potash bromide
		Phenazone	Potash sulpho-
		Phenol-	guaiacolate Saccharin
		phthalein	Silver nitrate
-		Pyrogallic acid	Soda bromide
		Sarsaparilla Sassafras oil	Spearmint oil
		Shellac	(ford.)
	7 -	Soda bichro-	Spirit, methy-
		mate	lated
		Soda salicylate	Sulphonal
		Thymol	Turpentine
		zajinoi	Wax, Carnauha

Cablegram.

NEW YORK, October 13.—Business is quiet and the general tendency of prices is lower, the following being among the reductions: Menthol is 25c. per lb. cheaper at \$6.75, Cartagena ipecacuanha is \$3.15; hydrastis (golden seal) \$6.20, balsam tolu is 75c., Canada balsam is \$14.00 per American gallon (\$1.00 cheaper), copaiba is 55c. per lb., and short bushy is \$7.50. Moreover, is \$70.00 per bottle phenoceting. buchu is \$3.50. Mercury is \$70.00 per bottle, phenacetin is \$2.15, antipyrine is \$3.50, formaldehyde is 40c. per lb., and chloral hydrate is \$1.00 per lb

AGAR-AGAR is quiet, with sellers of No. 1 Japan at 2s. 6d. and No. 2 at 2s. 4d. per lb.

Aloes.—The exports from the Union of South Africa during July 1920 amounted to 49,042 lb. (1,065*l*.), against 25,324 lb. (255*l*.) for July 1919. For the seven months ended July 31 the exports were 472,575 lb. (9,952*l*.), against 645,800 lb. (6,698l.) for the corresponding period

ANISE is steady at 88s. per cwt. for Russian and 92s. for Spanish.

ANTIMONY remains dull, with consumers buying strictly from hand-to-mouth. Good stocks are believed to be still held by home refiners, and new supplies are coming forward in fair quantities from the Far East. It is reported that the Japanese have now stopped making refined chiefly because of the poor prices obtainable. Chinese crude has thus to find a larger outlet essewhere, and its current varue, ex warehouse in London, stands at about 351. per ton.

ARSENIC.—Rates for white Cornish have been maintained at 76l. to 77l. per ton, and although business is restricted, current supplies are easily absorbed. above figures are for delivery either here or at Liverpool. Prospects seem to favour a steady market, while consumption is satisfactory.

ASPIRIN.—Sellers of the best brands are able to obtain 4s. 9d. per lb. for small parcels, and for quantity slightly less would be accepted.

Balsam Tolu is easier, with spot sellers at 5s. per lb. BARBITONE is easier, offering at from 21s. to 23s. per lb. Benzoates.—Benzoic acid ex toluol is quoted at 38. 3d. to 3s. 6d. per lb., and sodium benzoate at 3s. 3d. to 3s. 9d.

Bromides continue very weak, particularly German potash, which is being forced off by anxious sellers at a loss. A fair current value for small parcels of B.P. crystals quality is 1s. 8d. to 1s. 9d. Sodium is cheaper at from 2s. 2d. to 2s. 3d., and ammon. is 2s. 6d.

BUCHU.—The exports from the Union of South Africa during July amounted to 15,790 lb. (7,736*l*.), against 10,920 lb. (2,831*l*.) in July 1919. For the seven months ended July 31 the exports were 103,259 lb. (45,533*l*.), against 123,514 lb. (28,757*l*.) for the corresponding period of 1919.

Cadmium.—The tendency lately has been easier, due to a dragging demand and increasing offers at around 6s. 6d. per lb., while it is rumoured that business has been down to 6s. 3d.

Caffeine.—Pure crystals offer at the easier rate of 43s. per lb.

CAMPHOR (REFINED).—The English refiners have reduced the price of flowers by 1s. per lb. to 9s. per lb., 2-cwt. lots offering at 8s. 6d. Blocks have been reduced in proportion. Japanese refined slabs are easier, with spot sales at from 6s. $7\frac{1}{2}d$. to 6s. 6d. and sellers.

Camphor (Crude).—Chinese on the spot is quoted at from 3s. 6d. to 4s. per lb.

CANARY-SEED.—Good qualities are steady at 175s. per quarter for fine Morocco and at 180s. to 240s. for fair to fine bold Spanish.

CANNABIS INDICA.—A limited quantity of genuine Bombay tops can be had at 34s. 6d., and East African is quoted at 2s. 3d. per lb.

CARAWAY-SEED is unchanged at 40s. per cwt. for good Dutch and at 20s. for Morocco.

CHIRETTA.—Indian has been scarce for some time past,

with nothing obtainable below 1s. 3d. for f.a.q.
CHLORAL HYDRATE is about 3d. per lb. cheaper, importers offering duty-paid crystals at from 6s. 3d. to 6s. 6d. per lb.

CINCHONA.—At the Amsterdam auction of Java pharmaceutical bark on October 6, 1,365 packages, weighing 65,562 kilos., offered, containing the equivalent of 1,681 kilos. quinine. Of this quantity 295 bales and 80 cases, weighing 17,028 kilos., and containing the equivalent of 387 kilos. quinine, sold at from 82½c. to 125¾c. per half-kilo.

CITRIC ACID is in very little demand. English makers quote 3s. 6d. per lb., being slightly easier.

CLOVES.—Zanzibar have been quiet, with spot sellers of fair at 1s. $7\frac{1}{2}d$. to 1s. 8d. At auction 59 bags dark Amboyna were bought in at 1s. 11d. Cocaine is slightly easier, hydrochloride offering at

from 21s. to 21s. 6d. per oz., and slightly less for quantity. Con-Liver Oil.—Finest medicinal Norwegian is not too

plentiful on the spot, and holders ask 280s. per barrel ex wharf, and 260s. c.i.f. for prompt shipment.

COPPER-SULPHATE.—There is a little inquiry for export from Southern Mediterranean ports, including Greece, for which country specified brands are wanted, but business has remained generally slow, while there is keen competition in the export markets between British and Italian makers. This, of course, tends to keep prices at a level which leaves producers a very scanty margin of profit except where copper-sulphate is turned out as a by-product. Some merchants express the view that although the cost of 1aw metal has reacted downward some few pounds a ton this week, makers' terms ought to be on the basis of about 48l. to 49l. a ton in order to place them in a position to secure a margin of profit similar to that which existed in pre-war times. Current working costs are, of course, very considerably higher than they were then. The home make is perforce kept down, for the present at any rate. There has been some talk here that developments in the Italian industry have been rather overdone and that sulphate makers have overbought themselves in metallic copper. If this be correct, the outlook in the manufactured product stands but a poor chance of being improved for some time, although Continental requirements are expected to be considerably larger in the new season. Current terms f.o.b. Liverpool stand at about 41l. to 42l. per ton in casks, less 5 per cent.

CORIANDER-SEED is steady at 19s. to 21s. 6d. per cwt. for fair to good bright sound Morocco, and at 14s. to 15s.

for wormy.

CREAM OF TARTAR meets with a small demand, the English makers' prices being unchanged at 250s. per cwt., less 2½ per cent., for ordinary wholesale quantities of 99 to 100 per cent. powder for prompt delivery; secondhands offer at 240s. German make has been arriving here of late in moderate-sized quantities.

CREOSOTE CARBONATE is about 1s. 6d. per lb. cheaper, importers offering at from 22s. to 23s. 6d. per lb. Beech-

wood creosote (B.P.) is 9s. to 9s. 6d.

CUMIN-SEED is unchanged at 32s. 6d. to 35s. per cwt. for fair Morocco according to quality and quantity.

DILL-SEED is scarce, and 27s. 6d. per cwt. is asked for

the small quantity available.

Egg Products continue quiet. Chinese liquid hen-yolk is offered at from 85s. to 87s. 6d. per cwt. for old, 120s. for new, and October-December shipment has been sold at from 97s. 6d. to 95s. c.i.f. Dried yolk on the spot is 9d., sprayed whole egg is 1s. 6d., and native dried whole 10d. per lb. spot. Albumen is unchanged, with spot sales of prime egg at 4s. 10d., while October-December shipment is offered at 4s. 7d. to 4s. 8d. c.i.f.

ERGOT .- Various reports are current as to lower prices for shipment, but they are said to emanate from "bear sources in Spain. Spot values are from 14s. 6d. to 15s.

ETHERS manufactured from methylated spirit have been reduced by 2d. per lb., makers quoting purif. s.g. 0.720 (B.P.) at 2s. 11½d. per lb., with the usual reduction for

quantity.

FARINA.—Japanese No. 1 continues quiet and reasier, with spot sellers at 30s. per cwt.; sales to arrive include September-November at 29s. c.i.f. and October-November shipment at 29s. 3d. to 29s. c.i.f., being a trifle easier.

Fennel-seed is dearer, 358. per cwt. being the quota-

FENUGREEK-SEED is steady at the recent quotation of 158. 9d. per cwt. for fair Morocco.

FORMALDEHYDE is cheaper, 40 per cent. volume in casks

offering at 280s. to 285s. per cwt.

GALLIC ACID is easier, pure crystals offering at from 6s. 9d. to 7s. 3d. per lb. as to quantity.

GUM ACACIA is steady, with fair Kordofan sorts selling at 72s. 6d. per cwt. and cleaned at 75s.

HEXAMINE.—Spot value is about 13s. 6d. to 13s. 9d., with one or two isolated quotations at slightly less.

HONEY is quiet but steady. Jamaica is offered at from 85s. to 90s. for pale set and 75s. for amber. Australian of fair average quality is 60s, to 65s. Good pale Cuban is 80s., and dark 50s. to 55s. Californian in cases is quoted at from 90s. to 110s., the latter for fine white.

HYDROQUINONE continues easy, offering at from 9s, to 9s. 3d. per lb. on the spot and at 9s. c.i.f. to arrive.

IODIDES .- One of the English makers reports that the demand has been phenomenal, but does not anticipate any change.

IPECACUANHA.—The London returns for September disclose a stock of 504 packages Matto Grosso, 8 Minas, 33 Cartagena, and 90 East Indian-a total of 33 Cartagena, and 90 East Indian—a total of 645 packages, against a total of 218 packages at the end of September 1919. The deliveries during September were 93 Matto Grosso, 4 Minas, 1 Cartagena, and 11 East Indian. Holders of Matto Grosso quote from 14s. 6d. to 15s. 6d., Minas 14s. 6d., Cartagena 14s., and East Indian about 13s. 9d.

JALAP is easier, with good Vera Cruz offering at 3s. 6d.,

and high-testing Brazilian at 3s. 3d. per lb.

JUNIPER BERRIES, which have recently been selling at

about 23s., are now quoted at 25s. per cwt.

LEAD PRODUCTS.-Late last week there was an allround downward adjustment in white-lead and leadoxides to the extent of 30s. per ton. This had been rather overdue, and terms now stand thus: Dry white-lead 62l. and white-lead in oil 71l. 10s. a ton, both for export f.o.b., while red lead and litharge are on the basis of 58% for less than 5-ton lots and 56%. for over 5 tons, these terms applying to both the home trade and export. Consumers of white-lead seem less anxious to place new orders, while actual needs usually fall off at this time of year. Another subduing factor is that the deliveries from home makers have become more regular and that arrears have already been fairly well made up, while this has been accompanied by freer deliveries from Atlantic ports.

LIME JUICE.—The value of good raw West Indian is about 3s. 6d. per gallon, and slightly less for quantity.

LINSEED .- Although the market for shipment is lower, spot parcels are steady at 38s, to 44s, per cwt. for ordinary to good bold clean.

LINSEED OIL.—Developments have been chiefly determined by the recent considerable set-back in the fall in 1aw material, while much larger quantities of the latter have come to hand. There seems to have been some little more pressure on the part of La Plata shippers to put out old crop despite the fact that the balance of the latter is only moderate. Evidently the much cheaper offers of new crop at a notable discount have partly been responsible for this. At the same time, crushers' offers of oil seem increasing since the make has assumed larger proportions. Prices have dropped already several pounds a ton from the recent highest, the market closing on Wednesday at 73l. per ton naked and Hull 70l. 10s. per

LIQUORICE JUICE.—The further depreciation in the Italian rate of exchange has led to lower prices for extract. LITHIA CARBONATE is very quiet, American offering at

about 8s. 6d. per lb.

LYCOPODIUM.—In the absence of arrivals, the situation has, if anything, become more stringent, a limited quantity

offering at 22s. per lb.

Manna.—A Palermo advice intimates that during September, producers held up prices and were unwilling to sell until the whole of the crop was collected. It is anticipated that, owing to dry weather, the crop will only be about two-thirds of a normal production.

MENTHOL has been quiet, with spot sellers of Kobayashi-

Suzuki at 28s. 6d. per lb.

MERCURY.—The demand has remained rather slow, but the tone is steady at 18l. to 18l. 5s. per bottle. Export business continues poor, with practically nothing doing with the Eastern markets. The September imports amounted to 735 bottles, this making a total of 27,940 bottles for nine months, compared with 33,662 bottles for the same period last year.

OLIVE OIL.—Spanish finest quality edible is offered on spot at 20s. to 21s. per gallon in cans and tins.

ORANGE-PEEL is in fair demand, new crop so-called Maltese thin-cut selling at 1s. 3d. per lb.

. PARALDEHYDE is easier at 3s. 9d. per lb. in cases, and for carboys 3s. 2d. is quoted.

PHENAZONE is slightly easier at from 16s. to 16s. 6d., with occasional sellers at slightly less.

PHENOLPHTHALEIN is slightly easier at from 8s. 10d. up to 9s. 1d. per lb.

PIPERAZINE.—Genuine pure crystals offer at 6s. 6d. per lb.

Potash Sulphoguaiacolate is rather lower, importers offering at 16s. per lb.

Pyrogallic Acid.—Resublimed can be had at 12s. to 12s. 6d., crystals at 12s. 6d., and slightly less for quantity.

QUININE.—According to the monthly drug statement, the landings of quinine in London during September were nil, and the deliveries 29,568 oz., leaving a stock of 325,664 oz. on September 30. On the other hand, the Board of Trade Returns for September gives the following figures:

a a	1913	1919	1920
,	Oz.	Oz.	Oz.
September imports	201,050	1,005,840	299,469
JanSept. ,,	1,811,478	4,940,408	3,149,937
September exports	126,612	123,997	299,493
JanSept. ,,	1,055,256	1,101,051	2,362,132
September re-exports	19,228	558,247	12,132
Jan. Sept. ,,	283,114	2,101,339	417,388

SACCHARIN.—One of the British makers has reduced the export price of 550 pure powder to 20s. per lb. net f.o.b. in bond in shipping quantities in 1-lb. tins, cases included, and to 20s. 6d. net for smaller quantities by parcel post.

Salicylates continue very weak, with salicylic acid B.P. powder offering at from 2s. 4d. to 2s. 9d. per 1b. as to quantity. Sodium salicylate is easier at from 3s. 3d. to 3s. 6d. for B.P. powder, and at 4s. 6d. for phys. pure.

Salol is offering at from 5s. 3d. to 5s. per lb. according to quantity.

SARSAPARILLA.—The London first-hand stock at the end of September was 883 bales, against 979 bales in September 1919; the deliveries last month were 46, and the landings 67 bales. Genuine grey Jamaica is obtainable at 3s. 3d., Lima-Jamaica at 3s. for good, and native red Jamaica is 2s. 6d. per lb.

SPIRIT (METHYLATED).—The Methylating Co., Ltd., are to carry out an agreed scheme between methylators, and all orders will be allotted by them for delivery. In other words, centralisation of sales has been agreed upon, and consumers will be told from which methylator to draw their supplies. Excise request notes are to be forwarded to the company without filling in the name of the methylator. Prices were reduced at the beginning of October by 10d. per gallon, the previous alteration being an advance of 1s. 8d. in July last. Prices stand as follow:

	61 o.p.	64 o.p.
INDUSTRIAL— 100 gallons and upwards 30 ,, to 100 gallons 10 ,, to 30 ,, MINERALISED— 100 gallons and upwards 30 ,, to 100 gallons 10 ,, to 30 ,,	s. d. 7 3 7 5 7 9 8 2 8 4 8 8	s. d. 7 4 7 6 7 10 8 3 8 5 8 9

Any quantity taken in packages of 12 gallons or less to be charged 1d. per gallon extra, excepting where the 10-gallon rate applies. Methylated resin finished 2d. per gallon extra over the prices quoted for industrial spirit; methylated shellac, 1s. per gallon extra ditto. Terms: Cash in one month, less 21 per cent. No order will be accepted or executed except on the express understanding that it is charged at the price and conditions ruling on the day of despatch of the order. Carriage paid. Packages to be returned or paid for.

Senega can be bought at 7s. 9d. per lb. on the spot. SHELLAC is about 10s per cwt. cheaper on the spot, with sales of usual standard TN orange quality at 640s.;

fine second orange is 720s.; RL 1, 750s.; kala, 460s.; AC cakey, 540s.; GAL, 530s.; and 1G, 500s. Futures show little change, the sales including TN for December delivery at 5558. to 5408. to 5608.

SILVER NITRATE.—The price quoted for crystals on October 13 is based on a metal price of $56\frac{1}{4}d$. per oz., as follows: In quantities of 25 oz., 3s. $4\frac{3}{3}d$.; 50 oz., 3s. $4\frac{1}{4}d$.; 100 oz., 3s. $3\frac{3}{3}d$.; 250 oz., 3s. $3\frac{1}{4}d$.; 500 oz., 3s. $2\frac{3}{4}d$.

Soda Hyposulphite.—Pea crystals in cwt. kegs in ton lots can be had at 40l. per ton, and a German make is offering at 34l. to 35l.

Soda Tartarata is still in small supply. English makers quote 150s. per cwt. in 5-cwt. lots.

Sulphonal is about 2s. 6d. per lb. cheaper, importers offering at from 34s. to 35s. per lb.

TARTARIC ACID.—There is rather a ketter demand, the spot prices being nominal at from 2s. 8d. to 2s. 10d. per lb. according to quantity, with occasionally isolated quotations at slightly less.

THEOBROMINE is steady at the recent decline, the pure alkaloid offering at from 29s. to 30s., and theobromine sodium salicylate at 20s.

THYMOL ex ajowan-seed is offering at 45s, per lb., and

slightly less for quantities.

Turpentine.—The market has developed further weakness on the week on a dragging demand, while the recent considerable break in prices has almost frightened buyers out of the market. Less favourable reports about the industrial conditions in the United States and the fact that holders at the chief market centres have had their minds rather severely exercised by the lethargical state of the domestic and export demand have kept the market weak. Concessions are thus rather imperative until the demand improves. It is all very well to argue the question of high costs, but there is not much doubt that a temporary accumulation exists as a result of the materially increased crop-yield, and fears of "slumpy" conditions in many other articles of produce simply deter buyers. Spot supplies in the chief consuming markets have become somewhat more plentiful, but speculative forward sales are not ventured upon to any important extent in this market, although distant deliveries now stand at a premium of 8s. per cwt. Spot closes at 128s.—a reduction of about 11s.

VANILEIN is slightly firmer and in more demand, dealers quoting 62s. 6d. and makers 65s. per lb.

Wax, Bees, is quiet, with keen competition for the small business passing. Jamaica is 11l. to 11l. 10s., bleached Calcutta 12l. 10s. to 13l., yellow 6l., Mozambique 6l. to 6l. 10s., Mogador 6l. to 6l. 5s., and East African 6l. to 6l. 5s.

WAY, VEGETABLE.—Carnauba is lower, fatty grey offering at 200s. and chalky at 195s. on the spot. Japanese is quiet at 115s. on the spot.

Essential Oils Market.

THERE are no signs of any tangible improvement in trade, although some dealers reported better business during the The downward movement of prices is proceeding more slowly, and holders in some cases are not at all inclined to give way, believing that bottom prices have been reached in certain articles. Latest advices from Sicily report bergamot and lemon as firmer at the source, but spot business is not being readily done at considerably less, so these higher quotations are not likely to be taken up in the meantime. Orange is quite neglected and lower for spot and forward. Cajuput oil is weaker, and sassafras shows a slight decline. Some spot holders of American peppermint are inclined to shade previous quotations. Spearmint will shortly be available on spot; meantime forward quotations are easier. Paraguayan petitgrain is on the easy side, but the demand continues light. Aromatic and synthetic chemicals seem to be under a cloud except for quite retail business, and prices have receded considerably in some cases.

ANISE, STAR.—"Red Ship" brand continues dull, with spot sales at 4s. 1d. to 4s. per lb.

Bay.—West Indian is steady on spot, with offers made at 27s. to 28s. per lb.

BERGAMOT.—The spot value is about 34s. to 35s. per lb. for 37/38 l.a., but good quality is still obtainable inside these figures. The forward position is firmer, and 36s. to 38s. 6d. c.i.f. has been quoted.

A report from Palermo, dated September 23, states that the long and persistent drought has caused some damage to the pending crop, and the speculative interest of holders of old-crop bergamot has caused the position to become stronger.

Bois de Rose (Femelle).—Spot holders quote about 48s. per lb.

CAJUPUT is easier at 3s. 6d. to 3s. 9d. per lb. as to seller and quantity.

CAMPHOR.—Japanese essential white is unchanged at 200s. per cwt. for the small lots available.

CARAWAY.—Dutch distillers are reported to be maintaining a firm attitude and refusing offers of less than 11s. per lb. for rectified and 10s. crude. The spot value is about 6d. to 1s. per lb. more.

Cassia is steady on spot for 80 to 85 c.a. at 7s. 6d. to 7s. $7\frac{1}{2}d$. per lb.

CEDARWOOD is unchanged at 3s. 9d. to 4s. per lb. for spot.

CINNAMON.—Ceylon leaf is dull, with spot value 9d. to $9\frac{1}{2}d$. per oz. A high-grade Indian distillate, with over 90 per cent. phenols, is quoted at 1s. per oz.

CITRONELLA.—Ceylon continues extremely dull, with nominal quotations at 2s. 5d. to 2s. 6d., although a firm offer would probably be met at less. Java is unchanged

at 5s.

CLOVE is practically unchanged at previous quotations (14s. per lb.), although 13s. 9d. would buy in one direction.

EUCALYPTUS is in fair demand, with sales reported at $3s. 2\frac{1}{2}d$. to 3s. 3d. for good quality. Spot is offered around these figures.

GERANIUM.—There is very little demand, and quotations are without change at 39s. 6d. to 41s. for Bourbon on spot and 40s. to 43s. for Algerian.

LEMON.—Reports from Sicily give the position there as firm, with quotations on the dearer side—at from 6s. to 6s. 6d. c.i.f. There is not much business done at these figures from London, where spot lots are offered at 5s. 9d. to 6s., but American buying is said to be sufficient to maintain the former level at the source.

LEMONGRASS appears to be quite neglected, and spot is on the easy side at 8d. per oz. for Cochin.

LIME continues dull, with spot offers at 5s. per lb. in round lots for West Indian distilled. Hand-pressed is slow, and 23s. to 23s. 6d. is quoted.

MINT.—Japanese dementholised has been quiet, with spot sellers of Kobayashi-Suzuki at 6s. 6d. per lb.

ORANGE.—Spot Sicilian sweet has been done at 28s. to 30s. per lb., but weak holders are said to have sold at inside this figure. C.i.f. quotations have been made at 22s. and upwards. There is no demand for bitter, and 20s. or less would buy on the spot.

PATCHOULI is steady at 85s. per lb. for spot. For shipments afloat 80s. to 82s. is quoted.

PEPPERMINT.—" Wayne County" is offered on the spot in round lots at 36s. per lb. in one direction.

PETITGRAIN.—Paraguayan is on the easy side at from 26s. to 28s. per lb. for spot and 24s. 6d. to arrive.

SASSAFRAS.—Spot is easier, with holders quoting from 11s. 6d. to 12s. 6d. per lb.

SPEARMINT.—The forward price is easier at 51s. 6d. per lb. c.i.f. prompt shipment.

Spike.—Spanish is steady at from 7s. 9d. to 8s. per lb. for spot.

WINTERGREEN (SWEET BIRCH OIL).—Spot is easier at 36s. to 38s. per lb., and forward quotations are steady at 38s. c.i.f.

WORMSEED.—For small spot lots 68s. per lb. is said to have been paid, and for nearly landing 60s. October-November shipment is quoted about 50s. per lb.

Aromatic and Synthetic Chemicals.

Aubepine is easier, with spot quoted at 27s. 6d. to 30s. per lb. Bromstyrol varies from 27s. 6d. to 30s. spot. Coumarin is on the easy side at 24s. for spot or to arrive. Diphenyl oxide is offered at 7s. per lb. spot. Eugenol can be bought at from 18s. to 20s., according to seller, and Isoeugenol about 25s. per lb. Heliotropine has receded on spot at 26s. to 27s. per lb. Methyl anthranilate appears to be in good supply, with spot sellers at 29s. to 32s. Methyl salicylate is easier at 3s. 8d. to 4s. per lb., according to quantity. Musk ambrette is easier forward, with offers about 295s. per lb. Terpineol is steady, about 5s. per lb. for spot and 4s. 6d. for forward delivery.

Heavy Chemicals.

Wednesday, October 13.

Business in heavy chemicals continues much below the average in the "open" market. Consumers are only placing their orders for immediate requirements. This practice is no doubt due to the uncertain state of their trades owing to the present industrial unrest and to the general slump in all industries. The lull in the textile industries is naturally affecting business in chemicals. Export trade, which for some time past has been very poor, is now showing renewed activity. The gradual decline in prices has been to a certain extent accentuated by weak holders undercutting fairly steady markets. Prices, however, now seem to have touched bottom. American competition in soda products is very keen, and a considerable amount of Continental business has been done from that quarter.

Acetic acid is steady, with no great demand. Pure 80 per cent., 851.; technical 80 per cent., 801.; and glacial, 1001. Lump alum in casks is offering at 211., but there is only small business passing. Bleaching powder, 35-37 per cent., is fairly active, with limited supplies at 301. to 321. Borax crystals and powder are very scarce, and are in good demand at about 441. to 451. per ton. Commercial Epsom salt, in bags, is available at about 131. Glauber's salt is offered at about 91. to 101., and a fair business is being done. Salt cake, ground and unground, is in good demand at about 151. to 161., with supplies limited. Soda salts: English Soda ash in spot parcels is available at 171. to 181. Refined Bicarbonate in single bags is 131. to 141. Caustic, English, 70 to 72 per cent., is offered at 311. to 331. American is offering ci.f. U.K. and Continent at about same figure. English Bichromate is easier at about 1s. 2d. per 1b. Sulphide (60-62 per cent.) solid is quoted at about 501., with Continental offering at a slightly lower figure. Pea crystals, hyposulphite, remain very scarce and are in good demand, especially packed in small kegs; they are quoted at about 381., and commercial quality about 351. Caustic potash (88-92 per cent.) is in fair demand, and business is being done at about 1051. Permanganate of potash, commercial quality, is freely offered at 3s. 3d., with considerable offerings from Germany at a cheaper rate, but the quality is doubtful. White lead is very scarce. Only the imported product is on the market at about 671. Home makers are said to be sold well ahead. Zinc ashes (basis 70 per cent. Zn) in bags is steady at 91. to 91. 10s., with only a small business. Zinc carbonate is nominal; ample supplies are available, but there is very little inquiry. Zinc dust, English (92-94 per cent.) is steady but quiet at about 901. Zinc axide is in moderate demand, white seal offering at 671., green seal at 651., red seal at 622., and blue seal at 471. 10s. in casks. Grey Barytes is offering at 61. 10s. up

German Drug and Chemical Markets.

The market report, dated October 2, issued by a Hamburg wholesale drug-house, begins with the remark that once more, this time in Brussels, a congress of financial physicians is sitting, which has succeeded in establishing the correct diagnosis, but has so far failed to find the proper remedy to alleviate the financial malady, which, with few exceptions, is affecting almost the whole world. This is practically the first time that it has been universally acknowledge that international commerce and the world merchant are that international commerce and the world merchant are destined to bridge over the antagonism between the various peoples engendered by the war, and which, unfortunately, still persists, to smooth away differences, effect reconciliations. unite once more the torn bands between nations, and regulate the demoralised rate of exchanges by the inter-change of goods. But to achieve these ends the willing and striving world merchant must be provided with the requisite tools to carry out his task, which is best expressed by the term, "freedom in commerce." German merchants are unanimous in their demand for freedom-to be relieved of all official fetters and of the red tape entailed by a costly Government apparatus employing so many officials; and the German people are now convinced that without unrestricted trading and productive enterprise there is no possibility of any improvement.

The following quotations are in marks, per kilo., and apply to orders for original packages:

ACETIC ACID (80 per cent.) is in greater demand at m.12.50,

and foreign buyers evince interest.

ANETHOL is neglected at m.200, and is not likely to be in demand until later in the autumn or the beginning of winter.

Anise Oil finds few buyers at m.210.

BENZALDEHYDE, almost free from chlorine, for foodstuffs, is now more in demand, while makers' supplies are diminishing, and it is consequently very firm at m.85.

BENZOIC ACID is now quoted at m.57.

CAFFEINE (PURE).—In consequence of purchases by Japan, it has now exceeded its war price and realises m.925; stocks are being depleted.

CITRIC ACID.—Owing to the increased demand, the makers have advanced the price, which is now m.85.

Coumarin.—Speculative purchasers have acted wisely, since increased foreign orders have advanced the price to m.475, at which it is in brisk demand for export.

CREAM OF TARTAR (99 to 100 per cent.) has advanced in conjunction with the price of tartaric acid, and is now quoted at m.38 for the home market and m.42 for export. As supplies are scarce, a further advance is likely.

GENTIAN ROOT is very scarce at m.11.

GLYCERIN.—In view of slight demand and short supplies, the price is unchanged at m.28.

HELIOTROPINE is in greater demand at m.500.

MENTHOL.—The small amounts which have come in have immediately been taken up by consumers, and the demand has improved. The price is now m.850 per kilo, for cases and m.875 for smaller amounts.

MILK SUGAR.—White Ph.G.V. is now offered at m.32, but a rise seems likely in autumn and in winter, when the supply of milk decreases.

PERU BALSAM.—After being unobtainable for several years, the first arrival of ten cases of genuine balsam has come to hand; it is offered at m.425.

Salicylic Acid.—The price of m.50, quoted by makers and dealers, remains unchanged, although it represents selling at a loss. The last reduction made by makers is due to foreign competition, which had arisen during

SODIUM BENZOATE.—The autumn demand has set in, and in addition to small consumers' orders, larger wholesale orders are coming in, so that the price of m.60 has a tendency to advance.

SODIUM SALICYLATE remains scarce at m.65.

TARAXACUM ROOT has been exported at m.20.

TARTARIC ACID.—Business has improved. In addition to the regular orders, there have recently been a number of speculative purchases, which, in conjunction with the last increase in price announced by the manufacturers, points to a further rise in price. Powder and granular are still obtainable at m.56, and crystals, which are very scarce, at m.65, for home consumption, while special prices apply to export orders. A recently introduced quality with a reddish tinge has not found much favour, in spite of its cheaper

-Manufacturers are quite unable to meet the large demand, consequently it is extremely firm. Apart from the increased home consumption, foreign countries are also

trying to buy in Germany.

Italian Chemical Market.

The following are current quotations in lire per 100 kilos.: English carbonate of soda (98 to 99 per cent.), 90 to 125 per 100 kilos.; American, 85 to 120; alum, 220 to 280; borax crystals, 625 to 620; yellow potash prussiate, 2,000 to 2,400; yellow soda prussiate, 900 to 910; cream-of-tartar crystals, 1,800 to 2,400; ammonium chloride (98 to 99 per cent.), 650 to 825; caustic soda (76 to 78 per cent.), 260 to 350; soda crystals, 85 to 125; soda-sulphate crystals, 65 to 85; ammonia sulphate, 96 to 100; soda bicarbonate, 127 to 140; potash bichromate, 2,300 to 2,500; soda bichromate, 1,800 to 1,900; ammonia carbonate, 1,100 to 690; ammonia potash bichromate, 2,300 to 2,500; soda bichromate, 1,300 to 1,900; ammonia carbonate, lumps, 500 to 690; ammonia chloride (98 per cent.), 650 to 825; chloride of lime (100 to 110), 120 to 200; soda hyposulphite, 150 to 200; soda silicate, 140° Tw., 160 to 165; sodium sulphide (60 to 65 per cent.), 540 to 555; soda bisulphite, 32° Bé., 100 to 105; potash carbonate (85 to 100 per cent.), 1.000 to 1,100; caustic potash (70 to 75 per cent.), 1,500 to 1,550; citric-acid crystals, 3,600 to 3,650; hydrochloric acid (20 to 21 per cent.), 65 to 70; formic acid (80 to 85 per cent.), 750 to 775; nitric acid (36° Bé.), 290 to 300; sulphuric acid (66° Bé.), 50 to 55; tartaric-acid crystals, 2,600 to 2,650.

Italian Essential Oils Market.

The following current quotations in lire per kilo, are given for essential oils and aromatic and synthetic chemicals in Italy, and are based on a rate of exchange of about 88.75 lire to the pound sterling:

Lire	Lire
per Kilo,	per Kilo.
Almonds, bitter 325 to 350	Gingergrass 200 ,, 220
Anise (Jp.) 200 ,, 205	Hyssop 210 , 215
Basil 400 ,, 405	Juniper berry 125 ,, 130
Bay 4 280 ,, 285	Kummel rect 110 ,, 115
Bergamot / 280 ,, 285	Laurel 240 ,, 250
* Bois de rose 450 ,, 460	Lavender (Aosta) 300 ,, 310
Cajuput (Jv.) 65 ,, 70	(ex Mit-
Cananga (Jv.) 350 ,, 355	cham plants) 400 ,, 410
Caraway 200 , 205	Lemongrass 160 , 165
Cardamom 1,150 ,, 1,200	Mandarin 475 ., 480
Cedar Wood 60 , 65	Marjoram 140 ,, 145
Chamomile 1,000 1,100	Mustard 480 , 485
Cinnamon (Cey.) 550 ,, 560	Neroli (Ital.) 900 ,, 950
Citronella (Cey.) 37,, 40	Nutmeg 190 ,, 195
,, (Jv.) 60 ,, 65	Orris 8,700 ,, 9,000
Clove 180 , 200	Peppermint (Pied-
Cognac, green 1,750 ,, 1,760	montese) 250 ,, 260
Coriander 1,750 ,, 1,800	Petitgrain (Parag.) 350 ,, 355
Cypress 225 ,, 230	Red Thyme 95 ,, 97
Eucalyptus 60 , 62	Sandalwood (Cey.) 750 ,, 760
Fennel (sweet) 80 ,, 85	Sassafras 125 ,, 130
Geraninm (Alg.) 450 ,, 460	Ylang-ylang 1,200 ,, 1,300
,, (Bonrb.) 470 ,, 490	

Aromatic and Synthetic Chemicals.

		Lire	I	ire
		per		per
	F	Tilo.	K	ilo.
Anthranilic acid	 	170	Citronellyl acetate	475
Amyl acetate	 	90	Coumarin 3	375
Amyl salicylate	 160-	-180	Engenol (100%) :	300
Benzaldehyde s.a.p.	 	140	Geraniol	200
Benzyl acetate	 	110	Heliotropin (100%)	365
Benzyl alcohol	 	200	Methyl anthranitate	350
Benzyl benzoate	 	118	Phenyl methyl acetate	275
Bromstyrol	 	470	Saîrol]	L20
Cinnamic acid	 	190	Thymol 10	000
Cinnamic aldehyde	 	230	Vanillin 9	950
Citral	 	800		

Java Cinchona Cultivation.

At the annual meeting of the Society for the Promotion of the Interests of Cinchona Cultivation in Java, held in Weltevreden on July 21, MM. G. L. J. Holle, Schoutendorp, K. A. R. Bosscha, F. H. Knottenbelt, and Dr. Kerbosch were elected members of the governing committee. One of the subjects for discussion was the question of granting a subsidy to the Government Experimental Ingranung a subsidy to the Government Experimental Institute for cinchona research, for the purpose of investigating the proposal of producing quinine directly from the bark by the planters themselves, a suggestion elaborated by the late Van Leersum, who was greatly in favour of this innovation. After some discussion it was decided to grant an annual subsidy of 10,000 florins, for a period of three years for this purpose. In connection with this resolution an annual subsidy of 10,000 florins, for a period of three years, for this purpose. In connection with this resolution the contribution for the current year was fixed at the rate of 6 cents for every kilogram of quimine sulphate, in the form of bark. The President introduced, on behalf of the governing committee, a proposal tending to impart to the existing Society more the character of an association of producers, in order that its powers should be greater than is at present the case. This proposal was unanimously adopted. MM. Schoutendorp, G. L. J. Holle, and C. L. M. Brants were elected as delegates to the Board of the Cinchona Bureau. Cinchona Bureau.



Medication in Malaria.

SIR,-Your recent notes with reference to Tropical Diseases Clinics show that the vast experience gained during the war has added little to our knowledge with reference to the medication of malaria. The physicians of the Ministry of Pensions still pin their faith to quinine in the active stages and to arsenic in the treatment of post-malarial debility and anæmia. Last July Dr. J. C. McWalter flung a bombshell into the meeting of the British Medical Association at Cambridge when he declared that the medical profession had wasted millions of pounds by adhering to the exploded doctrine that quinine prevented malaria, and that reliance on this method of prophylaxis was largely responsible for the heavy expenditure caused to the State by treating persons who would never have become infected were it not for this mistaken confidence of the doctors in quinine prophylaxis. It is a curious thing that notwithstanding war experience the Army is still clinging to its ridiculous pre-war uniforms and the physicians to their pre-war delusions regarding quinine. The recently published "Manual of Tropical Diseases" by Castellani and Chalmers, which is a typical standard textbook, treats of quinine prophylaxis at length, and quotes the following table from the Italian authority Celli, which goes to show that quinine does to some extent prevent malaria.

Relative Values of Quinine Prophylaxis and Anti-mosquito Protection.

Method of Prophylaxis

W =.		Quinine prophylaxis	Anti- mosquito protection	Quinine plus anti- mosquito		
Percentage	None	alone	alone	protection		
infections		20%	2.5%	1.75%		

In view of this slavish adherence to tradition it is refreshing to refer to "Malaria and its Treatment," a recently published book by Captain Cecil Alport, who had very extensive experience of the disease in Macedonia. He merely mentions quinine prophylaxis to advise persons living in malarial districts not to adopt this so-called preventive measure. He points out that it was extensively tried on the Salonika front and proved a colossal and very expensive failure. Captain Alport made a point of finding out whether patients admitted to hospital during 1917 had received the routine 15 grains of quinine bi-weekly, and in nearly every case they had. Castellani states that nothing less than 10 grains daily is any good, but Alport goes farther, and states that double that amount would not be effective; even if it were, to subject healthy persons to deliberate poisoning with a potent drug makes prevention worse than cure. My advice, after many years in the tropics, is to rely on a good mosquito net for prevention, and if this fails, reserve quinine for the cure of the disease. Quinine will not prevent malaria, but it will most assuredly cure it. Both physicians and pharmacists, however, overlook the fact that it was not the alkaloid quinine which the Countess of Chinchon introduced into Spain from Peru, but cinchona bark, and that it was not till more than two hundred years after the famous Commission of Jesuit Fathers that Pelletier and Dumas isolated the most famous drug of modern times. They succeeded in convincing the physicians of the Georgian and early Victorian periods that quinine was the one and only specific for malaria, and it was not till 1866 that doubt was thrown on the point. In that year a Commission was appointed in India to see if the other constituents of cinchona were not equally efficacious. They tried cinchonine, cinchonodine, and quinidine on 1,200 cases of clinical malaria, and reported that all three alkaloids exerted an immediate curative effect. No notice was, however,

taken of this report, and the doctors went on using only quinine In 1902 Sir David Bain advocated the use of the total alkaloids from cinchona bark, but nothing was done in the matter until Major Acton, of the I.M.S., recently took the matter up and demonstrated by experiments on a large scale that the total alkaloids of cinchona bark give better results than plain quinine. He obtained remarkable results from the use of quinidine, and as the consequence of his investigations, expresses the opinion that many medical men have unwittingly used the drug for years in the treatment of malarial fevers. Messrs. Howards, of Ilford. sell several thousand ounces of the drug yearly, and most of it is exported to the East, where it is probably used to mix with quinine. Howard's quinine, on account of its purity, commands a high price in India, but it is often adulterated in the bazaars, where the pure quinine is scooped out of the centre of a bottle and the cavity filled with a cheaper alkaloid. These investigations have an economic importance far in excess of their clinical interest. Many of your readers are no doubt aware that the Dutch commenced to cultivate cinchona in Java in 1852. The original plantations were sown from a packet of seeds obtained from one great specimen of Cinchona Calisaya growing on the slopes of the Andes. The seeds were brought to the Eastern Hemisphere by a Mr. Ledger, who offered them first to the India Office and then to the Indian Government. Both declined to have anything to do with them, but the Dutch bought the seeds, and at once realised the importance of controlling the world's supply of an important drug. It was not till 1861 that the Indian administrators realised their mistake and started cultivating cinchona. Their undertaking was badly managed, and India's cinchona supply was altogether unworthy of her possibilities. The great war brought home to the authorities the folly of allowing quinine production to be a monopoly of even a friendly neutral, and in 1916 an attempt was made to increase the area of cinchona cultivation, so that our great dependency might be able to supply cinchona alkaloids to the whole British Commonwealth. In view of what has been said, however, the cinchona from India cannot furnish the same proportion of quinine as the Java bark, but the Indian bark supplies an equivalent amount of total alkaloids, and it has been shown that these are quite as good as quinine; so why in the name of economics is the Ministry of Pensions pinning ats faith to quinine which has to be largely purchased from Java, instead of using the cinchona febrifuge or total cinchona alkaloids which are available at a much cheaper price? To revert to another point, has medical science during the war not realised what I have said above, that it was cinchona bark and not quinine which won eternal fame for the Countess of Chinchon? Warburg's tincture is still advocated in the most recent books on tropical disease, and the formula is given in full in Dr. Castellani's "Manual of Tropical Diseases," which is one of the most exhaustive treatises on the subject in print. Dr. Castellani says, I think, what every tropical medical practitioner will support, that this tincture, with its host of ingredients, will sometimes give excellent results when all alkaloids The active ingredient of the famous Warburg compound is, of course, cinchona bark, and I have frequently used the officinal tincture when it was not available. have found it give excellent results in some cases, and suggest that it might find a larger place in the tropical chemist's armamentarium against the curse of tropical life. Here again the doctors seem to require a lead from the pharmacists, as most of them have no experience in treating tropical complaints. Now the whole country is sprinkled over with pensioners invalided from some tropical theatre of war, and every village contains its quota of malaria and dysentery cases. What I have previously said with regard to dysentery applies with much greater force to malaria, as there are ten cases of malaria to each one of dysentery. I suggest that in studying the pharmacology of malaria there is immense scope for the pharmaceutical craftsman, and that even an educational campaign on the lines that it was cinchona, and not quinine, that first cured malaria might be productive of big results clinical and economical. Yours sincerely, M.D., L.P.S.I. (9/10.)

The Etymology of Liverpool.

SIR,—I cannot understand how Mr. Saunders manages to equate "lither" and "lower." There is no etymological connection between them. "Low" in its present spelling goes back to Middle English—note Chaucer's description of the young squire, "Curteys he was, lowly, and servisable"—replacing an older louh and lah. All these are from the Scandinavian, where the Icelandic form is lagr. But while the complete softening-out of "g," as in daisy, "the dayesye or elles the ye [i.e., "otherwise the eye"] of day," from the Anglo-Saxon dages eage, is quite normal in English, I do not recall an instance where that letter has passed into th. There is, however, in our language a word, "lither," now perhaps obsolete, which may or may not commend itself to your correspondent. In Piers Plowman we have a reference to the "lither air," and Shakespeare mentions the "lither sky." The meaning of the word is "noisome," "pestilent," or "stagnant." Acquitting Mersey's busy port of the imputation of having once been a stagnant pool, there are other possibilities raising interesting side-issues. For instance, the true English word for "lower" is "nether." Now, Liverpool has three names in Welsh. The first of these, "Llynlleifiad," need not detain us long. Popular etymology absurdly makes it the "lake of reaping"; it is really nothing more than the English name of the city with the Saxon "pool" replaced by the Celtic "llyn." The other two are "Lerpwl" and "Nerpwl." If the place were once called "Netherpool" (the lower pool), this, in accordance with Welsh phonological laws, would become in that language "Nerpwl" or "Nerpwlh," according to the date at which it was borrowed. The interchange of "N" with "L," not common in Teutonic, is well known in Celtic. Thus, legend derives "Ludgate" from a mythological king; it actually comes from "Nuadh," an Irish water-god, whose name became "Ludd" or "Lud" in the mouths of the Britons. So we might suppose—I emphasise "might"—that "Nether-pool" became, under Celtic influence, first "Neërpool," then "Leërpo

Proprietary Medicines Bill.

SIR,—We have read with much interest your articles and comments on the above Bill. So far it appears no one has given much attention to clause 10, "Interpretation": . . . "proprietary surgical appliance means any instrument or contrivance of a medical or surgical nature, etc." As this now stands, John Jones' syringe for earache, or William Williams' nasal douche, or somebody's enema, atomiser, nasal spray, and so on, will have to be registered. Surely the powers that be do not mean this? And yet, unless this paragraph or section is amended, these numberless simple and necessary articles will have to be duly registered.

Yours faithfully,
ERNEST H. GIBSON, Director,
Zeals Asthma Fluid and Atomizer Co., Ltd.

SIR,—The time has come for chemists to protect their own interests and make a definite and firm stand against being deprived any further of the privileges attached to their calling. They should not lose any one of their rights, nor suffer any further reduction in their status, and in particular chemists ought to continue the preparation and supply of their own proprietary medicines without interference from any outside body, no matter whether that body is an offspring of the medical profession or any other self-interested party. Every effort ought to be made, and at once, and with the greatest display of determination, to have inserted in the above Bill a clause somewhat on the following lines:

. Proprietary medicines sold by retail by or for the chemist proprietor only, in his own shop or shops, shall be exempt from the provisions of the Act, provided they are not held out as a cure for the diseases mentioned in the schedule to the Act.

It is apparent also that the schedule should be amended, for cod-liver oil emulsion and petroleum emulsion are admittedly beneficial in the case of tuberculosis, and certain proprietary medicines—e.g., "Scott's Emulsion" and "Angier's Emulsion" are often prescribed for this complaint. Further, it should not be necessary for a mother to send her daughter or daughters to a medical man on every slight occasion when one of them suffers from "a disease peculiar to women." It ought to be possible for her to obtain, in the future as in the past, remedies which have been used, with beneficial results, by herself and perhaps by her mother and grandmother before her. Chemists must maintain that they are a responsible and trustworthy body, and should the medical profession wish to make ridiculous claims regarding their desire to benefit the suffering public, or attempt to belittle the good faith of the pharmacist, the doctors might be requested to justify some of the Insurance scripts issued, when cases of great callousness would undoubtedly come to light. Clause 3, sub-sections (a) and (b), should be deleted, otherwise it would be an offence to forward to a customer a remedy for any simple ailment, such as headache or constipation, should that customer have written asking his or her chemist to send something suitable.

Yours faithfully,

Manchester. A. B. Spedding, M.P.S., F.S.M.C.

Progress in Education.

SIR,—While reading Major Peck's address at the opening of the School of Pharmacy (C. & D., October 9, p. 88), I was agreeably impressed by the advancement in the educational status of the pharmaceutical student, both already achieved and also forecasted for the future. But when I had finished I was more impressed by two things—the first an objection and the other an omission. When you think of a student taking the matriculation, spending four thousand hours' practical work, and then two or three years' university training to follow, and coming down with the Minor, Major, and B.Sc. in his pocket, and try to imagine such an academic person pitchforked into retail pharmacy, the idea becomes ludicrous. As at present constituted, with cut prices, long hours, inadequate fees for Insurance dispensing, etc., retail pharmacy is the best example of a sweated industry extant and does not lend itself to large staffs or big business; consequently, in many cases the pharmacist has to be his own porter and bottle-washer and intersperse his professional work with menial duties. The present-day pharmacist has been brought up to this from his apprenticeship, but I cannot see the university young man doing such work, and to carry out the upward trend it behoves the Pharmaceutical Society to pay attention to the status of the pharmacist in esse as well as in posse. The great omission was that, in view of this new curriculum for the Qualifying examination, Major Peck made no reference to any attempt being made to induce the medical profession to love a horse and the love of the l medical profession to leave pharmacy to the pharmacist. I think I am not far out in saying that the medical student's training in pharmacy consists of about twelve lectures, and if a doctor is considered so far qualified in pharmacy after this course to be specially exempted from the Pharmacy Act, it seems strange that a student who confines his attention to pharmaceutical studies only should require such an elaborate curriculum. At any rate, it should be compulsory for any establishment, whether a surgery, dispensary, or hospital, supplying medicines to the public, to employ a qualified pharmacist, as there is as much danger in these cases from poisonous drugs as there is in the retail sale. With regard to the prospective analytical and biological posts under the proposed health centres, I am afraid that any pharmaceutical student who relies on any opening in this direction will be sadly disappointed; there is just as big a rush at the present time on the medical schools as there is on the pharmaceutical ones, and it is certain that the successful medical candidates, finding their own profession over-crowded, will get the first pick of these Government posts, with the added weight of a medical diploma.

Yours faithfully, CHAS. HAMUS. (9/10.)

Salaries in Pharmacy.

SIR,—The report in the C. & D. of the discussion in the Council last week (p. 84) on "Salaries in Pharmacy" makes very interesting and illuminating reading for an employee. As the Pharmaceutical Society is ruled by employers, the official attitude of the Society towards assistants, even though they be full members, can be understood and placed in its proper position. Mr. Deakin introduced the sentimental side into the question of salaries. My impressions, spread over twenty years' experience, have shown me that sentiment is only introduced when the employer wants something cheap, but when the assistant proposes a sentimental point of view he is very quickly told to get down to practical facts. Sentiment has been the curse of pharmacy from the very beginning. No other trade allows sentiment to fix its wages scale, and it is time our trade cleared itself of the trammels of sentiment which must be false. No, let us be paid what we earn and are worth; keep sentiment to its proper place, and don't let us call "sweating" by a name which should be reserved for real honest motives. It may be hard at first. Many assistants do not earn their money; many masters are not worth the amount some assistants earn for them. Efficiency is required all round master and man; then sentiment can be used for hard-ship and misfortune. Sympathies do not pay rents and rates. Honest payment for services rendered does, and at the same time it gives the assistant a chance to be a self-respecting citizen. There are some of us who are inclined to believe that the present question of unemployment can be best studied from a practical point of view. Sentiment seemed very pretty when it drew a beautiful picture of the assistants being compensated for their absence at the Front by free qualification, but sentiment did not show how jobs were to be found afterwards. It would be interesting to know how much real motive was behind the movement for grants, and how much was due to the feeling that a flood of unemployed assistants would be useful to fight the threatened battle with the trade unions. That point was raised at a committee meeting of a technical school when a non-chemist member asked the chemist member whether the trade would stand the increased number of chemists. The chemist member's reply was to the effect that ample employment would be found. The scheme has been a failure. Its result has been to the control of the cont throw back on the market numbers of unqualified men anxious for a job. It has been unfairly stated that the blame for the failures lies with the assistants, who would not work; but while there is no doubt a modicum of truth in the allegation, there is also some blame to be attached to those who floated the scheme and forgot that men cannot come back from years of soldier life and pass examinations even in nine months. The weakest spot has been the waiving of the Preliminary examination. You cannot impose technical training upon minds unprepared by lack of elementary training. It was not fair on the men.

Yours faithfully,

SCAR GILL. (11/10.)

SIR,—I enclose an advertisement from the "Glasgow Herald," in which 3l. 3s. a week is asked for by a qualified assistant, "absolutely reliable; retail and wholesale experience." I had intended qualifying, but what is the good of it when the qualification is as cheap as this? I have never given my wife less than 3l. 10s. per week since I have been demobilised. A chemist who works for less than 4l. 10s. a week is a fool.

Yours, etc., M. S. D. (11/10.)

Postal Surcharges.

SIR,—With regard to the complaint from wholesalers mentioned in the C. & D., October 9, p. 82, may I be permitted to remark that they are not wholly blameless themselves in this matter? I have twice recently paid surcharges on monthly lists from wholesale houses, and, no doubt, others have had the same experience. But while the wholesaler is contemplating this mote in the retailer's eye, would it be audacious to ask him to look

at a beam in his own? I refer to the practice of sending out stocks in hand of proprietaries marked at the old price after prices have been advanced, although new price tickets are obtainable from the manufacturers. In these cases the wholesaler bags a handsome extra profit while putting both retailer and manufacturer to quite unjustifiable expense and trouble in procuring and dispatching respectively small quantities of revised price tickets. The advance in price of Formamint is a case in point.

Yours faithfully,

Brighton.

W. W. Thomas.

Carriage on Empties.

SIR,-Mr. Howard Vibert's complaint seems particularly futile and inept. He evidently overlooks the enormous increase in cost of outward carriage, and that the cost on goods is in any case far greater than on returns. Doubtless it could be arranged for wholesale houses to pay carriage both ways, also to provide free cases, free bottles, and free tins, other perquisites could also be added-but for all these things he would eventually have to pay, and the invoiced price of his goods would reflect the increased overhead charges of the wholesaler. As for the London pharmacist enjoying certain privileges denied to his country confrère, 'twere a pity if, with his vastly higher rents and cost of living, there were not some compensating circumstances. Pharmacists near the larger wholesale houses, whether London or provincial, will always possess privileges, in quick service and other ways, denied to the dweller in remote parts. The advantages are not all on one side however, and many a pharmacist in a squalid neighbourhood, who can get his goods within the day and return his empties without charge, would gladly forgo these privileges to be daily within reach of a sight of the swelling sea and walk along the historic Hoe whence Drake and Howard set out in the brave days of old. Yours faithfully,

Menston-in-Wharfedale.

J. HOLMES.

Examination Dispensing.

SIR,—The candidate at the Apothecaries' Assistants' examination whose experience was given in the C. & D., August 21, p. 74, mentions the following prescription as having been set in dispensing.

Sodii arsenat. ... gr. d. Ferri sulph. ... gr. ij. M. ft. pil., etc. Send 12.

What does this mean and how did your correspondent translate and dispense it? There is no mention of sodii arsenat. in the B.P. 1914, and reference to the Pharmacopæia of 1898 and 1885 does not enlighten one on the subject. Have we to use the Na₂HAsO₄.12H₂O, the Na₂HAsO₄.7H₂O, or the anhydrous variety in this case? If the anhydrous salt—rendered so by the process of heating to 300° F., is required, it does not remain anhydrous long, nor is it possible to say that that temperature is the right one to give only N₂HAsO₄, for assuredly some Na₄As₂O₇ is also produced. A great deal of unnecessary trouble, difficulty, and doubt would be overcome if—as has often been suggested—the sodium pyroarsenate, a very definite and constant substance, was officially recognised. The second ingredient is equally doubtful. Must FeSO₄.7H₂O, the same granulated, or, on account of the large quantity of water of crystallisation set free after chemical union, should the exsiccated be used? What happens is represented in the equation:

 $2Na_2 HAsO_4.12H_2O + 3FeSO_4.7H_2O = Fe_3(AsO_4)_2 \\ + H_2SO_4 + 2Na_2SO_4 + 45H_2O.$

The whole assumes a pasty mass of a slate-blue or grey colour. The massing is then easily accomplished by adding manna and powdered acacia in partes equales, the result being elegant and small pills.

Yours truly,

 T_{UTOR} . (9/10.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Apple Essence.

Referring to the report of the investigation of the odorous constituents of apples by Dr. Power and Mr. Chesnut (C. & D., August 28, p. 54), I am reminded of one constituent of the well-known odour of sp. æther. nit., which was the subject of much discussion in the days of the Chemists' Trade Association and Dr. Attfield. legal gentlemen always placed great stress on the apple-like odour of sweet nitre, which was certainly due to the aldehyde almost always present in the old-fashioned variety and the modern formula. To this aldehyde much of the efficiency of the spirit was due, as also is the action of the isomer paraldehyde.—Abel Scholar.

Cancer and its Probable Cause.

According to research on cancer, the disease appears to be caused, or developed, in precipitated glycogen, or in glycogen which has been repeatedly and continually precipitated in the liver or other organ; as this glycogen cannot be taken up by the normal cell tissue it is, therefore, broken down and used by a dissipated sperm cell, or by some species of yeast cell, probably acquired from food containing excess of yeast, such as is used in the baking of bread. Glycogen may be precipitated by a blow along with fibrine, more especially if situated in the vicinity of a vein, not often near an artery, due to compression of the capillaries and acid formation, so that they cannot take up the blood flow; minute particles of solid glycogen taken up by the blood may become lodged within any germ cell in the body and await a favourable opportunity to develop; when a growth commences to develop changes take place in the composition of the bile salt saurocholic acid, in which sulphur compounds are split off, the patient becomes torpid, yellow or white in complexion, due to cacocholia, which may be somewhat corrected by administering soluble sulphates or thiosulphates; the above are deductions so far as the research has already gone.—J. R. Huck.

Legal Queries.

- C. S. (9/10).—A hairdresser may not legally sell a corn cure without affixing to it a medicine stamp and being licensed to sell stamped medicines. The attention of the Board of Customs and Excise should be called to the matter
- J. B. & Co. (9/10).—UNEMPLOYMENT INSURANCE.—The provisions regarding payment of unemployment insurance are on the same lines as in the case of health insurance. An assistant with an independent income of at least 26l. a year can claim exemption from payments under the unemployment scheme, but the employer, if he pays the assistant less than 250*l* a year, will still have to make his share of the contribution, as he does under health
- G. S. (7/10) is tenant of a combined house and shop, in a country town, at an annual rent of 55l. He pays the rates and does all the inside repairs. He has occupied the premises for seventeen years, the original lease having expired long ago. What is the maximum amount by which the landlord is entitled to increase the rent? [The landlord is entitled to increase the rent by 15 per cent., and by a further 25 per cent., making a total increase of 40 per cent., if he is responsible for all the repairs to the premises. If, however, "G. S." is under a legal obligation to execute part of the repairs, the increase of 25 per cent. will be correspondingly reduced. If the parties cannot agree upon the reduction to be made, the matter must be settled by the County Court. We assume that the landlord has not executed any structural improve-ment to the premises which would entitle him to make an additional increase of rent.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

- D. C. P. (4/10). Sugar and saccharin are obviously the simplest sweetening agents for peppermint-water. You do not give particulars of the purpose of the inquiry, but other sweeteners, such as liquorice and honey, may be equally suitable.
- G. A. F. (12/10).—Sauce Preservative.—We should not consider 5 grains of salicylic acid in a pint of sauce to be injurious to consumers, considering that about half an dunce of the sauce only is used at a time. The sterilisa-tion of the bottles is best effected by boiling in water, draining, and, while they are still hot, filling with the sauce previously heated for some time to near boiling-
- F. G. W. (8/10).—We cannot trace the formula for cough-mixture to which you refer.
- M. F. D. (9/10).—"BRIMSTONE SULPHURIC ACID" is probably intended to indicate that an acid is to be used prepared from natural sulphur instead of from sulphur obtained from pyrites. The latter may contain arsenic.
- $E.\ W.\ (9/10)$.—Walnut Stains for Wood.—The following are from "Pharmaceutical Formulas":

Potassium per-Nigrosin, ... 3 oz. Vandyke brown, manganate Manganese sulphate 3 oz. Bismarck brown, of each Hot water 1 gal. Spirit ... Oij. Dissolve. Dissolve.

The last-given formula can be diluted or added to spirit varnish as a colouring agent.

H. G. P. (11/10).—LIQUID SWEETENER.—Liquid forms of saccharin are made by dissolving the sweetening agent in glycerin or in a spirit basis, as in elixir glusidi, made as follows:

> Saccharin ... 5viij. Sodium bicarbonate 3iv. Rectified spirit žiiss. Water to make ... žxx.

Dissolve the solids in part of the water, add the spirit, filter, and wash the filter with water to 20 oz.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Oct. 15, 1870.

The Hundred Old Books on Pharmacy.

When Mr. Ince undertook to collect a hundred old books on pharmacy, and report upon them at the Liverpool Conference, we almost doubt whether he had carefully considered the amount of labour in which he thereby involved himself. The collection of the books, we apprehend, was the easiest part of the task; the selection of them required much skill and thought; while the dissection of many of them by himself, and the direction and connection of the reflections of other authors must have occupied a considerable section of his time and energy during the past few months. But Mr. Ince is not a man to be daunted by difficulties, nor one who finds his happiness in idle or selfish indulgence. The hundred pages of the "Year Book of Pharmacy," which will contain the reviews of this "Century," will be one of the most interesting portions of that annual; and not only this, we venture to affirm that the standard of pharmaceutical literature has been applied to them in a skilful, honest, and accurate method. Perfection is unattainable. But the hundred old books at Liverpool seemed to give in a wonderfully graphic manner a history of the rise and progress of pharmacy during almost three continues. When Mr. Ince undertook to collect a hundred old books of the rise and progress of pharmacy during almost three centuries; and we doubt whether a much larger volume could have been so useful in this respect to an intelligent student as the reviews to which we are alluding.

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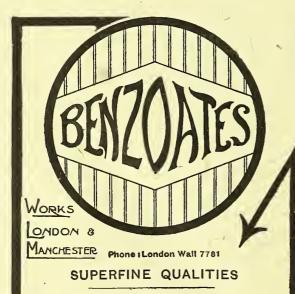
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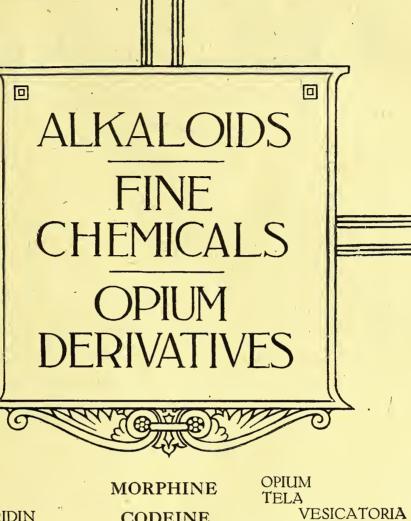
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5/9	,,			32-oz.		45/6
010	17	9 9				each.
8/3	**	,,	•••	$\frac{1}{2}$ -gal.	8/3	6/3
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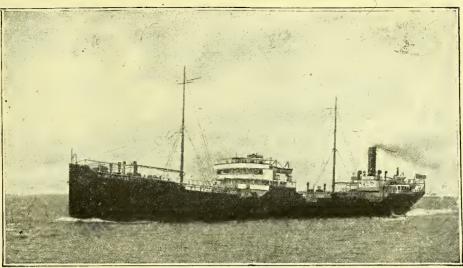
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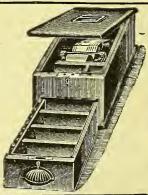
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4-oz. Decorated Tins.

1 Gross ... 78/- 5 Gross ... 77/-2 ... 77/6 10 ,, ... 76/6 Carriage paid.

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Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lb. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 Gross and upwards.

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Plain and with 15% or 33% (by weight) COD LIVER OIL

DIAPARAFFIN

DRY DIAMALT

Malt Extract and Paraffin in Powder form.

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The above Preparations are on the P.A.T.A. and allow a 25% margin.

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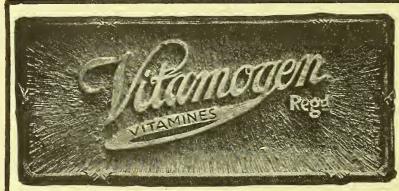
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Packed in scaled boxes containing light, crisp, delicious rolls, specially for Chemists' Trade.
Can be stocked without any risk of deterioration and

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When the pharmacist makes and packs his own emulsion

he has to assume all risk of deterioration or failure to sell. He has to invest his capital in considerable stocks of the various ingredients, containers, labels, etc. etc. He has to create the demand for every bottle that he sells and the cost of any sampling or advertising comes out of his profits.

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his investment is limited to finished stock which is in constant demand—he has only to display the product on his counter and in his window, and to maintain a reasonable reserve. Certain selling aids are provided for him. Further, much is done in various directions to stimulate demand.

33% Cod Liver Oil Emulsion with Hypophosphites, P., D. & Co.

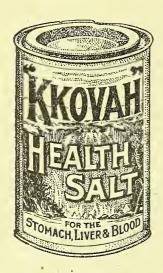
is prepared with the finest non-freezing cod liver oil, rich in vitamine (fatsoluble A), with hypophosphites of calcium and sodium; it is manufactured
and finished by special processes which ensure its stability. The profit it
yields is exceptionally good, particularly when purchased on special terms.
There is no risk whatever; it is prescribed by physicians throughout the
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The public know "KKOVAH"!

When you make a window or counter display of "Kkovah Health Salt" you're not trying to sell unknown goods—it's an old-established family aperient.

There is a constant demand for Kkovah—be in a position to meet it by ordering a stock to-day.

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A COMBINED NERVE TONIC AND BLOOD PURIFIER.

Invigorates and Purifies the Whole System.

Attractively packed.
Shows 50% Profit to you.

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A scientifically prepared

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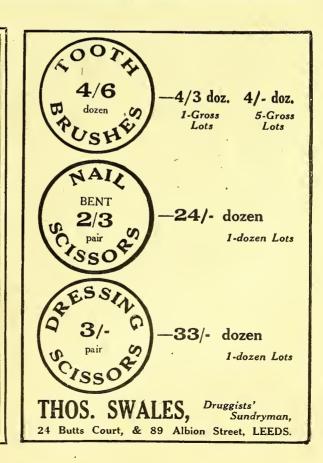
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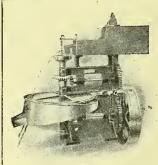
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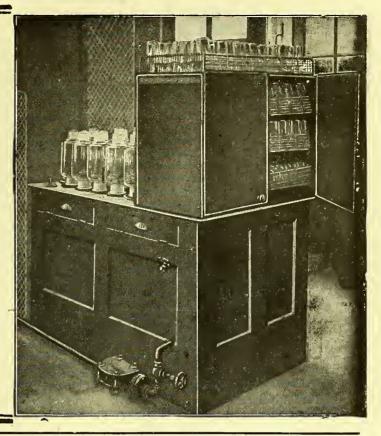
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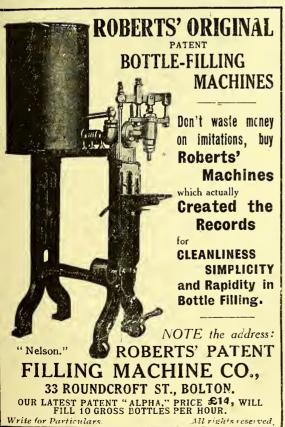
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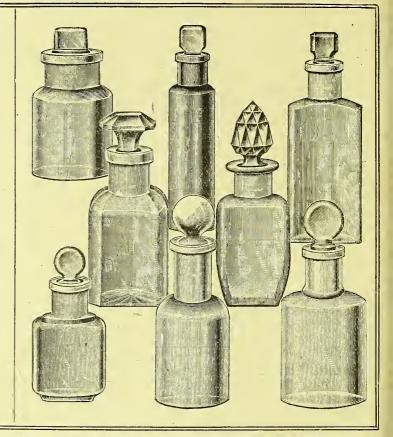
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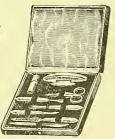
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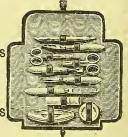


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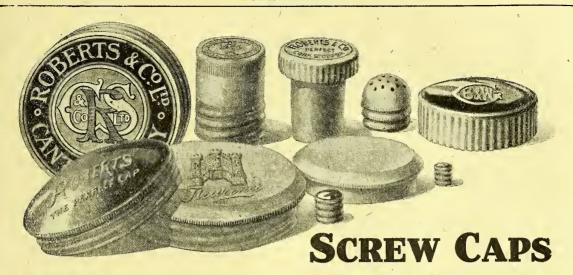


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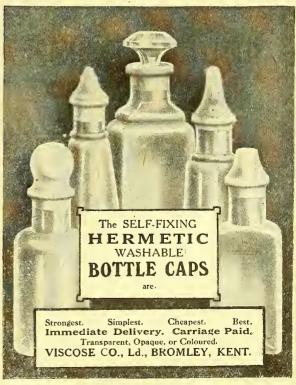
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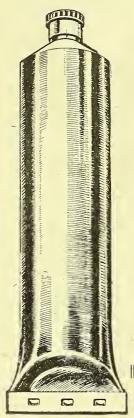
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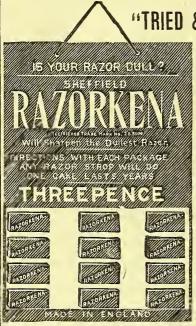
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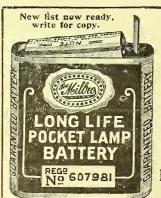
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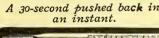
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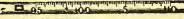
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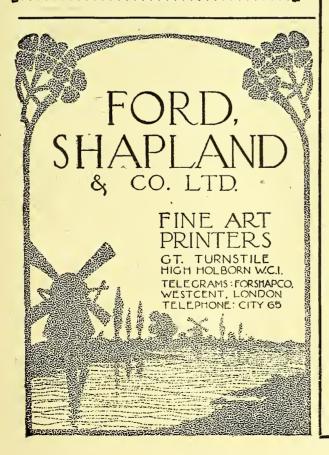
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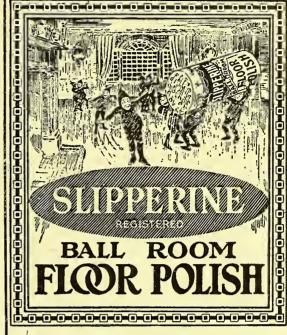
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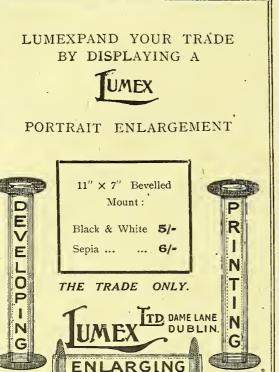
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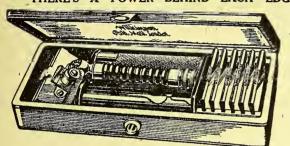
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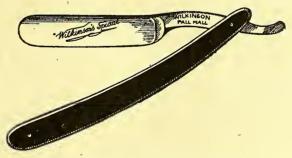
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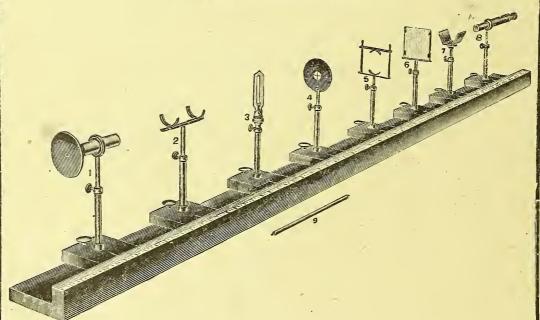
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DRUCCIST

42 CANNON ST. LONDON, E.C.4.

OCTOBER 16, 1920

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SUTTON, SURREY.—Good old-established Retail Dispensing Chemist's Business; held on lease, with 16 years to run; rent £100; excellent dwelling accommodation; well-fitted shop; good stock; returns average £30 per week; scope for increase; offers invited.

SOMERSET.—Good-class Family Retail, in main thoroughfare of busy town; further particulars on application.

PICCADILLY.—Retail Dispensing Chemists; lock-up shop; rent £95 p.a.; tenancy agreement with six years to run; returns average £1,800 p.a.; majority ready money, but good accounts carried; stock estimated £600; under management; in present hands four years; nicely fitted; net profits estimated £350; offers invited.

BUCKS.-Good-class Retail and Dispensing Business in main thoroughfare of busy town. Fullest particulars on application.

We have a large number of Chemists on our Register requiring Businesses on the South Coast and West of England, and should be glad to hear from intending Vendors, with full particulars of their Businesses. Our methods are strictly coofidential, and we are constantly in touch with gennine Buyers, both Wholcsale and Retail.

Valuations prepared for Purchase, Sale, Income Tax, Balance Sheet, Probate, etc.

CHARLES C. MARSDEN

Valuer, Transfer Agent & Stocktaker,

44 Sholebroke View, Chapeltown Road, Leeds.

Stocktaking Valuation. Special Terms
All Valuations have the personal attention of C. C. Marsden.

PARSON C. BAKER Ph C., M.P.S., F.S.M.G. Wm. ROOKE ROBERTS, M.P.S., F.S.M.G.

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Valuers for Purchase, Sale, Probate, Income Tax, Balance Sheet, Se.

Recommended by The British Drug Houses, Ltd., Messrs. Meggeson
Ltd., Messrs. Barclay & Sons, Ltd., and many other leading Wholesale Houses. Valuers to the Association of Manufacturing Chemists.

STOCKTAKING IS NOW A BUSINESS NECESSITY

Write for Terms to

Ernest J. George

202 Birmingham Road,

(Thirty Years' Drug Trade Experience)

Walsall.

Chemists' Accountant, Valuer, Transfer Agent and Expert Stocktaker for Sale, Purchase, Income Tax, etc.

Books Written Up. Balance Sheets Prepared. Prescriptions Priced.

FOR SALE.

6s. for 50 words or less : 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

NATIONAL Cash Register; prints receipts; nearly new; present price £120; no reasonable offer refused; may be seen at any time. Dodd's Drug Stores, 35 Hampstead Road, N.W. 1.

OPTICAL Trial Case, 19" × 14" × 3", containing 60+, 60-, 36+cyl., 36-cyl. discs, Prisms, etc., 30; all framed and marked in dioptres; 2 double frames, 1 single, 3 Charts, face measuring set (13 pairs), rimless clip measuring set (12 pairs), "C. & D.'s" "Chemist Optician"; everything as new for commencing; what offers? Apply 165/28, Office of this Paper.

SURPLUS BOTTLES.—22 gross 1½ oz., 20 gross ¾ oz., white flint squares; suitable any trade. Offers to 163/33, Office of this Paper.

FINANCIAL.

A WELL-KNOWN Chemical Manufacturer seeks additional eapital for the purpose of acquiring new premises and plant for the execution of business offering far in excess of possible output of present works; accountants' figures certifying highly profitable working for the last 10 years can be furnished, as also proof of world demand in increasing quantities for finished products, ability to meet home and foreign competition and availability of raw material; amount required £25,000 in the case of a manufacturing concern having land and steam available, or £50,000 otherwise; principals only. Please write 4/69B, Office of this Paper.

PRIVATE TREATY.

PRIVATE Treaty.—MacSymon's Stores, Ltd., removing from their premises, Deane Street, Liverpool, offer their Drug Department, with its very large and valuable stock of Drugs and Sundries, together with trade fixtures and full equipment, for immediate disposal as a whole. All communications to be addressed, T. Smith, Manager Drug Department, MacSymon's Stores, Ltd., Deane Street, Liverpool.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less : 6d. for every additional 10 words or less, prepaid.

The Advertiser may, it preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

HUNTS.—Unopposed Retail Business for Sale in prosperous village; well stocked; returns present rate £150 monthly; good house, with bathroom, garden, etc.; freehold; vendor's property. Further details and prices on application to F. E. Harris,

ANCASHIRE.—Splendid middle-class Cash Retail Dispensing and Photographic Business, in best district of busy industrial town; steadily growing; average weekly returns for 1919, £65; for first six months 1920, £73; splendid opening for Optics; good premises, for Sale with the Rusiness; details to cash purchasers only. Apply 169/35, Office of this Paper.

I ONDON, N.—Old-established Cash Business; main road, 15 minutes from City; returns £1,500; good Preseribing, scope for Photographic and Dental; seven-roomed house; ill-health reason for selling; full details and price to eash purchasers only. Apply 170/18, Office of this Paper.

MANCHESTER DISTRICT.—Good-class General, Mixed, and Dispensing Business in manufacturing town 12 miles from Manchester; easy hours; no Sunday duty, and closed all the half-day holiday; little opposition; no multiple shops; rent £35 4s. per annum; portion of premises sublet at £26 per year, leaving a low rental of £9 4s.; annual turnover £3,000; price asked for quick sale £2,000; very little N.H.I.; plenty of scope for increasing business; owner going into a manufacturing business. Apply 167/14, Office of this Paper.

YORKSHIRE, Colliery Town.—Splendid Retail, Dispensing, and Prescribing Business for Sale; large N.H.I.; average weekly returns £35; profits above the average; no living accommodation; rent £20 per annum; price £550. Apply 167/30, Office of this

GOODWILL for Sale, including stock-in-trade and advertising matter, of a Proprietary Article (P.A.T.A.), the name of which has been a household word for upwards of 50 years; gross profits about £2.400 for this year; business is capable of gross expansion; could be run either alone or in conjunction with other businesses; wages bill only £10 per week; £6,000 or near offer, payable 10% in eash and balance by approved bills. Apply, by letter only (no agents), to James C. Fox, Solicitor, Finsbury Court, E.C. 2.

RETURNS £2.588 last year; this year higher; best position in Market Street, S.E. (no Insurance); has done 8.000 scrips per annum; 8 years' lease to run. Wick, 313 Brixton Road, S.W. 9.

PARTNERSHIPS.

8s. for 50 words or less : 6d. for every additional 10 words or less, prepaid.

RETIRED Pharmaceutical Chemist and Surgeon-Dentist would take interest and partnership in Chemists, Drug Stores, or Dental Practice where qualifications would be to mutual advantage; take charge of Stock and Dispensing Counter, but not Counter work owing to deafness; could advance capital; Wholesale or Retail; references exchanged. "M.," 1 Vicar's Hill, Ladywell, London, S.E.

SITUATIONS OPEN.

RETAIL.

6: for 40 words or less : 6d for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/4

POMONTON DISTRICT, LONDON, N.—Junior male Assistant required. Give full particulars, salary, etc., to 167/29, Office of this Paper.

LEDS.—Junior Assistant, with Dispensing experience, required at once; easy hours; no Sunday duty. Personal interview preferred, or write, giving full particulars, such as age, experience, references, salary required, etc., R. Johnson, 91 Wellington Road, Leeds.

LONDON, S.W.—Competent unqualified Assistant wanted for good-class modern Store trade; must be good Salesman, well up in Dispensing, and of good appearance and address. State full particulars of age, height, experience, salary required, and when disengaged, in first letter, to Lion Drug Stores, Ltd., 15 Madeira Place, Brighton.

L ONDON, W. (near Baker Street).—Manager, qualified, good middle-class business, Counter and Dispensing, reliable, energetic man, and good Salesman, to take sole charge; plenty of seope; permanency; state experience, references, and salary required. Apply 168/21, Office of this Paper.

LONDON, W.—Smart Assistant, for Counter and Dispensing; knowledge of Continental Pharmacy an advantage. Full particulars to 169/40, Office of this Paper.

NORTHAMPTON.—Experienced Assistant required for good-class business; age about 28; must be good Salesman, smart Window-dresser, and have up-to-date Photographic knowledge; easy hours; no Sunday duty. Apply, stating age, experience, salary required, references, and enclose photo, P. Jeyes & Co., Ltd., Chemists, Northampton.

OURBITON.—Wanted, young lady Dispenser (soon as possible); one who has had experience in Chemist's business preferred. Apply, with full particulars, to Mr. H. J. Perrett, 90 Victoria Street, S.W.

TREORCHY, GLAM.—Splendid opening for capable unqualified Assistant possessing Optical experiences; permanency with progressive salary to the right man. "Optics" (168/18), Office

WESTON-SUPER-MARE.—Junior (male) in good-class Dispensing business required at once; easy hours; usual particulars, with references, salary required (outdoors). Blackmore, High Street.

CAPABLE Junior Assistant required immediately; accurate Dispenser and used to general Light Retail business. Apply, stating age and wage required, Colmans, 161 Bury New Road,

COCKS & DUNSFORD, Pharmacists, Torquay, require an Assistant (male), unqualified; accustomed to good-class Dispensing and Retail. Apply T. W. Dunsford, Castle Circus, Torquay.

COMPETENT unqualified Assistant, with good experience, wanted (at once) for Dispensing and Counter; outdoors. Please state full particulars. S. P. Sayers, 7 Brent Street, Hendon.

ENERGETIC Assistant; must be a good Counter Hand, Dispensing, and Photography. Full particulars of experience and salary to H. F. Ferriss, 349 High Road, Lee Green, S.E. 12.

H. BELLRINGER wishes to thank applicants for the position at Hyde, Ches. The position is now filled. Please accept this in lieu of writing. Photo and testimonial have been returned. Should any have been overlooked please communicate.

J. WEARING, Pharmacist, Woking, requires a capable Assistant; must be good Dispenser and Counterman, and not over 30 years of age; unqualified; give full particulars in first instance.

JUNIOR Assistant or Improver; accustomed good-class Dispensing business; outdoors; state age, experience, and salary required. John Selley, 202 Earl's Court Road, South Kensington, S.W. 5.

JUNIOR Assistant, for good-class business; outdoors; about 20-25; of good appearance, smart, and reliable; knowledge of up-to-date Window-dressing and Photographic work essential; state in first letter fullest particulars of previous experience, when disengaged, salary required, and necessary references. Chater, Chemists, Watford.

MANAGER shortly required for good-class Retail business; must be good Buyer, Prescriber, Dispenser, and understand the Agricultural side; salary £4 weekly and commission. Apply, with particulars as to experience, to Holme, Chemist, Wallingford. Applicants unanswered in 3 days declined.

MUNICIPAL TECHNICAL COLLEGE, SWANSEA.

Acting Principal: T. Gilbert Jones, M.Sc., Wh.Sc., A.M.I.C.E.

LECTURESHIP IN PHARMACY.

Applications are invited for the above Lectureship. Salary £400 per annum. The appointment is a whole-time one in the Chemistry Department of the College.

The Lecturer will be briefly required to give instruction in Pharmacy and Materia Medica to students preparing for the Professional Examinations of the Pharmaceutical Society of Great Britain, but qualifications in Botany and Chemistry are desirable.

Applications, stating age and particulars regarding training, qualifications, and experience, accompanied by copies of testimonials, to be sent to the undersigned not later than Monday, November 1st.

T. J. REES, B.A., Director of Education.

Education Offices, Swansea. 11th October, 1920.

PART-TIME Assistant required, Thursday and Saturday evenings; quick Cash business; Tooting, S.W.; must be good Counterman and reliable Dispenser; knowledge of Photography desirable; remuneration 2s. 6d. per hour. P.C.B. 26/27, Office of this Paper.

PERMANENCY for unqualified Assistant for Counter and occasional Dispensing; unmarried, and with knowledge of Photography preferred; should be good Salesman and capable of taking charge; must possess undeniable references. Full particulars in first letter, Parkhouse, 70 Beckenham Road, Beckenham.

RIGHT man wanted for permanency and possible succession; qualified Manager, for busy middle- and working-class N.H.L. branch, in large town; house attached; suit middle-age, married man with good references; state salary required, with commission on takings. Apply 168/10, Office of this Paper.

GT. GEORGE'S HOSPITAL, S.W. 1.—Required, Junior Assistant Dispenser; ladies ineligible; hours 9 a.m. to 5 p.m.; Sunday duty every third, about two hours. Applications, stating experience and salary required, to the Pharmacist.

UNQUALIFIED Assistant, single, age 25-30, for brisk mixed business; must be obliging, energetic, and good Counterman. Particulars as to experience, salary required, age, height, when disengaged, with references and photograph (those unable to send a photograph are requested not to write), to "County Derby" (167/32), Office of this Paper.

UNQUALIFIED mon wanted for Dispensing, Counter, and Photographics; permanency; easy hours; no Sunday or holiday duty; give full particulars, age, experience, references, salary required, etc.; photo, if convenient. Smith, Chemist, Durham.

WANTED, young lady Assistant; good Saleswoman and Window-dresser; easy hours; comfortable berth. Apply stating age, salary required (to live out), references, Mrs. Heppenstall, Rexal Pharmacy, Goole.

WANTED, smart qualified Assistant; young. State age, experience, salary required, etc., enclosing recent photo, to W. E. Matthews, Ltd., 40 George Street, Croydon.

WANTED, qualified Manager; about 40 years of age preferred; comfortable post and easy hours; only one seeking a permanency need apply; salary offered £5 per week, with 5 per cent. commission on increased returns. Apply "East Lancashire" (167/13), Office of this Paper.

WANTED, unqualified Assistant; must have good knowledge of Optics. Give full particulars, age, experience, references, and salary required, to E. R. Dixon, West Hill House, Lincolu.

WANTED, a Junior Assistant, principally for Front Counter and Stock work. Apply, with full particulars (outdoors), to F. J. Gibson, Pharmacist, Wolverhampton.

WANTED, immediately, smart unqualified Assistant for brisk business, with N.H.I. Briggs, Chemist, 585 Lea Bridge Road, Leyton.

WANTED, qualified Chemist as Branch Manager; must be energetic and full of resource, with a good knowledge of Photography and Agricultural Chemicals; highest references; applicant should be resident in London or N.W. districts. Apply, stating age, full experience and salary required, to "Statim" (29/23P), Office of this Paper.

WANTED, Assistant for the Photographic Department; one with good experience of high-class apparatus and an all-round knowledge of the Photographic trade; an excellent opening for a keen man. Turner, Photo Dept., 36 Trinity Street, Cambridge.

WHOLESALE.

LONDON.—Really smart man is required to take control of a Wholesale business; qualified preferred, but not absolutely essential; permanency, with unbounded scope for progress; applicants must bear unimpeachable character and be prepared to shoulder considerable responsibility. "London" (25/7N), Office of this Paper.

MANCHESTER firm is desirous of corresponding with a gentle man, who must be well educated, having sound commercial knowledge of the Drug Trade, to succeed a sound connection in Lancashire and Cheshire chiefly; only those with proved abilities will be entertained. Please state qualifications, experience, etc., in strict coufidence, to 14/26H, Office of this Paper.

 $\mathbf{D}^{\mathrm{RY-ROOM}}_{\mathrm{State}}$ hand, age about 24, wanted by provincial house. State full particulars, wages, etc., to 5/35C, Office of this paper.

TXCEPTIONAL OPPORTUNITY.—Live, energetic Representative wanted, London area, by firm of first-class Toilet Article Manufacturers, having established connection in West-End and suburbs; financial interest can be arranged if desired. Also provincial Agents required on commission basis. Give experience, lines now carried, territory, terms, in confidence, to "A." (167/34), Office of this Paper.

JUNIOR Assistant wanted for Dry and Wet Counter. Reply, stating experience and salary required, to G. Steven & Co., 118 Chorlton Road, Manchester.

ARGE firm of London Wholesale Druggists require qualified young man for Packed Goods Department; must have initiative and imagination, coupled with au instinct for buying and selling, preferably with previous experience; salary to commence £300 per annum; good prospects. Apply "H." (9/13E), Office of this Paper.

LABORATORY MANAGER.—Goodall, Backhouse & Co., Manufacturing Chemists, Leeds, require (immediately) a thoroughly capable man to take charge of their manufacturing Laboratory. Applicants must be qualified, and have had previous experience in the making of Tinctures, Syrups, Milled Ointments, and Pharmaceutical and Toilet Preparations generally, on modern lines, and be able to carry out the usual alkaloidal and other estimations. Energy, ability to introduce new lines, and control staff, and familiarity with modern plant, are essentials. Apply (in confideuce), giving full particulars in first letter, to W. P. Bowman, c/o the above.

MANUFACTURING Chemists require part-time Traveller, with good connection Chemists and Stores, for London, suburbs, and British Isles generally, for exclusive lines. "C. W." (P.C.B. 25/11), Office of this Paper.

MILL man required, with Drug-grinding experience, for oldestablished Manufacturing Chemists, South-East London. Write full particulars, age, wages, etc., to 4/68B, Office of this Paper.

 $R^{\rm EPRESENTATIVE}$ required to call on Doctors with medical speciality; good prospects for the right man. Apply, giving full particulars of experience, 152/29, Office of this Paper.

REPRESENTATIVE required to carry certain popular Compressed Lozenges and Tablets on commission basis; state experience, lines now carried, and districts covered, also terms expected. S. M. Hibberd, Wolverhampton.

PEPRESENTATIVES, having live connection in the following territories, Midlands, East and South Coast, South Wales, Lancs, North of England, and London, to carry a Proprietary Pile Cure on commission (20 per cent.); only men able to command business apply 168/20, Office of this Paper.

REPRESENTATIVES required for Durham, Northumberland, Cumberland, Westmoreland, and North Lancashire, with established connection among Hairdressers and Chemists, by a firm of manufacturers of Toilet Specialities; good commission basis; also one for Birmiugham and district. Apply, with full particulars, to 167/28, Office of this Paper.

REPRESENTATIVES wanted to carry series of Toilet Goods and Sundries on commission; only men with good connections eutertained; state ground covered, experience, etc. Apply 168/38, Office of this Paper.

REQUIRED by London Export Druggists, Typist (female). State experience, age, and salary required, P.C.B. 26/20, Office of this Paper.

TABLETS.—Wanted (at once), a young man with experience in the manufacture of Compressed Tablets, and willing to assist in Pharmaceutical Laboratory as occasion requires. Apply, stating experience, wage required, etc., to Goodall, Backhouse & Co., Wholesale Druggists, Leeds.

W. A. WHARRAM, LTD., Wholesale Chemists, require Repreoue acquainted with South Wales district. Apply 34 Lady Lane, Leeds.

WANTED, for small Lancashire Wholesale Warehouse, Chemist's Assistant for Wet Counter; one willing to make himself generally useful preferred; state experience and wages required. Apply 168/8, Office of this Paper.

WANTED, an Assistant to take charge of and develop Continental Import and Export business in heavy Chemical products, knowledge of which and general business principles essential. Write "K. M.," c/o J. W. Vickers & Co., Ltd., S Nicholas Lane, E.C.

WANTED, by young and progressive firm, qualified Pharmaeeutical Chemist for Manufacturing; must be energetic, good disciplinarian, experienced with latest production methods and in manufacture of Ointments, Medicated Syrups, Jellies, Pastilles; all applications acknowledged and treated in strict confidence. Write, stating experience, age, terms, to Box 542. The Walliss-Hammond Service, Wardrobe Court, 146a Queen Victoria Street, E.C. 4.

WANTED by firm of Manufacturing Chemists, a Representative for Birmingham and Pottery Districts, to sell Packed Goods and Toilet Articles on a substantial commission basis; one resident in the district preferred; no objection to a gentleman representing another house for goods not clashing. Reply "Birmingham" (P.C.B. 26/22), Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

STRAITS SETTLEMENTS.—Required, immediately, Assistant, young, unmarried, with Chemical qualification; one with Optical qualification preferred; 4 years' agreement; passage paid out and home; salary first year £420, second and third years £455, fourth year £490. Apply W. C. H., c/o Burgoyne, Bnrbidges & Co., Ltd., East Ham, London, E. 6.

GIBRALTAR.—Analyst required by the Sanitary Commisof Sioners of Gibraltar. Salary £500 per annum, plus a proportion of Laboratory fees usually averaging not less than £80 per annum, but no guarantee can be given as to amount. Free first-class passages provided and half-pay given on voyage. The appointment in the first instance will be upon probation for twelve months, and during that time may be terminated by one month's notice from either side. After twelve months' service the appointment will be determined by three months' notice from either side. Strict medical examination. Candidates must be Fellows of the Institute of Chemistry with diploma in Foods and Drugs Analysis, including Microscopy, and be experienced in public health work, including Bacteriology, Wassermann reactions, and other work of this nature. Apply, for form of application, which must be submitted not later than the 28th October, to the Crown Agents for the Colonies, 4 Millbank, London, S.W. 1, quoting M/Gibraltar, 10323.

APPRENTICESHIPS.

MESSRS. F. R. BARLOW & CO. have a vacancy for a well-educated youth as Apprentice; exceptional opportunity of sound training and experience in Dispensing, Photographic, Agricultural, and General Retail; facilities given for study. F. R. Barlow, 37 Market Place, Devizes.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less : 6d. for every additional 10 worde or less, prepaid.

The Advertiser may, it preferred, have replies addressed to the Office, and forwarded on payment of an additional charge of V-/

A.A.A. -QUALIFIED Chemist desires any position of trust; London Managership preferred; held "Chemist," 13 Conizer Road, Parsons Green, S.W. 6.

A.A.A. -QUALIFIED (25); permanency; good worker; Assistant or Branch Manager. Vokins, 10 South

A.A. -UNQUALIFIED; temporary post desired, November 3-17; London or suburbs; state full particulars; permanent post desired, beginning December. Miss Rumsey, 128 Belgrave Road, S.W. 1.

A BRANCH Manager, qualified, 28, desires responsible position; thoroughly honest; well recommended; Scotland preferred, but not essential; disengaged. Apply 168/13, Office of this Paper.

A CHEMIST, 27, with Dispensing, Counter, and Photographio experience, will manage or assist; Locum or permanency; good references, and well recommended. Apply "Qualified," 186 Yauxhall Bridge Road, Westminster, S.W. 1.

A CHEMIST, with 16 years' experience in high-class Dispensing and Photographic business, desires berth as Manager or Senior Assistant; excellent references. State salary offered, etc., to Kinghorn, 24 The Meadow, Cromer.

A CHEMIST (44), disengaged; good all-round experience; permanency preferred; setisfactory references. "Qualified," 38 West Brampton, Newcastle (Staffs).

A GENTLEMAN, highly experienced; disengaged; smart Counterman and Dispenser; references good; tall and active. N., 11 James Street, Paddingto 1.

A PERMANENCY required as Manager or Senior, preferably in London area; qualified; 15 years' good all-round experience, including West End and Continental; fluent French; disengaged end of October; succession considered. Apply Diplock, 121 Warwick Street, Victoria, S.W.

A QUALIFIED Chemist as Manager or Assistant; 20 years' experience; permanency preferred; disengaged at present. Davies, Ty Cwrdd, Llwynhendy, Llanelly.

A QUALIFIED Chemist, middle-age, desires engagement in any suitable capacity, Wholesale, Retail, or Dispensing; active and reliable; salary a minor consideration. "Fidelis" (169/2), of this Paper.

A RELIABLE Manager or Assistant; 25 years' experience, including fair knowledge of Opties; South of England preerred; unqualified; good references. Sugden, 43 Hall Royd, hipley, Yorks. A SITUATION wanted (immediately) by experienced, capable, qualified man (27); highest recommendations. Apply R. J., c/o 38 Wellfield Road, Cardiff.

A WELL-EXPERIENCED Manager or Assistant; London, provincial references; moderate salary; disengaged. "Chemist," 67 Bath Road, Exeter.

A CCURATE, reliable, and efficient; young, energetic Pharmacist, with sound, high-class training, seeks responsible position in London or district; thoroughly trustworthy; good references; Photography. Wood, Highfield Terrace, Halifax.

AN active, qualified Manager (36) seeks similar position; 8½ years' successful London Managership, first-class West-End Dispensing experience; Photography; succession or partnership considered. "M.P.S.," 8 Priory Villas, Friern Barnet, N. 11

A N experienced Cost Clerk (ex-officer) seeks part-time work; would assist Chemist with buying (Toilet Soaps, etc.), costing, and books; West London preferred. Write 164/26, Office of this Paper.

ANY Pharmacist desirous of taking a less active part in the management of his business should communicate with me; London and provincial experience; exceptional references; married; unqualified; interview; available early in December. "Montpelier," c/o Mrs. Prince, 53 Chipstead Street, Parson's Green, London, S.W.

A POTHECARIES' HALL.—Young Lady, holding this certificate, requires .part-time engagement. Apply A. D. S., 7 Pownall Gardens, Hounslow.

A PPRENTICE.—Young lady, passed London Matriculation. Particulars, B. B., "Oaklands," Whitton Road, Hounslow.

AS Manager, Drug Stores, unqualified; good Preseriber, Counterman, Window-dresser, Photographics; married; reside over premises if convenient; London or provinces; state salary. E. M. P., 1098 Harrow Road, N.W.

A S qualified Manager or Locum; disengaged; good all-round experience; town or country. J. Fraser, 57 Cranbury Road, Fulham, S.W.

 $\mathbf{A}^{ ext{SSISTANT}}$, unqualified (30), requires post; General experience Counter, Stock, and Dispensing. Searle, 2 Carlisle Avenue, Plymouth.

A SSISTANT, referred in Pharmacy, City and West End experience; fair knowledge of French; disengaged. "Xervis," 29 Mexfield Road, Putney.

A SSISTANT (25); tall; accurate and reliable Dispenser; good experience; well recommended; disengaged. T. N. N., 16 Market Square, Leighton Buzzard, Beds.

A SSISTANT, highly recommended, energetic and trustworthy, unqualified (26), married, requires permanent position immediately; good all-round experience, including Photography. Full particulars, salary offered, S. A. G., 96 Chapel Street, Luton.

A SSISTANT; all-round experience; London, middle-class or industrial trade preferred; good references; disengaged. H. Lemon, 7 Roslin Terrace, Acton.

A SSISTANT (26); first-class Dispensing business experience. Please state full particulars, "Provincial" (169/24), Office of this Paper.

BRANCH Manager or Qualified Assistant open for engagement at once; salary reasonable; references good; not afraid of work. "Statim" (170/250), Office of this Paper.

CAPABLE, qualified Pharmacist, 39, desires post of Manager or Senior Assistant; energetic and trustworthy; high-class Dispensing and Counter experience; Photography; excelent references; disengaged. Apply 168/15. Office of this Paper.

CHEMIST, qualified, disengaged, as Manager, Assistant, or Looum; long and varied experience; steady, active, and reliable; good references. "Rex" (170/25), Office of this Paper.

CLERICAL.—Evening work of any kind; writing up accounts and posting up books; terms moderate. Write "F. G." (207/37), Office of this Paper.

DISENGAGED-shortly.—Experienced qualified Manager would consider similar position with view to succession; London district only. 170/31, Office of this Paper.

DISPENSER or Front Counter in good-class business; highest references (Bath, London, etc.); Minor qualification; outdoors; state salary; disengaged. Mrs. —, c/o Randall & Son, Ltd., 146 High Street, Southampton.

DISPENSER (Hall) requires post' with Doctor or Chemist; seven years' experience with Chemist and one year with Doctor. 14 Kitchener Road, Forest Gate, E. 7.

DISPENSER.—Widow lady (Hall) desires post with Doctor; country preferred; Secretary, Typist; Books; references. 170/33, Office of this Paper.

DISPENSER.—Lady (Hall) seeks post; part or whole time; thorough knowledge; Hospital, Institution, Surgery (bookkeeping); excellent testimonials; London. 170/12, Office of this Paper.

EXPERIENCED Drug Stores Manager or Assistant; would entertain succession; moderate salary. "Chemicus," 58 Gapsy Hill, S.E.

CENTLEMAN (28), Part I. Minor, requires post, full time, with good Pharmacist; London or Liverpool. Robinson, 38 Larkhall Rise, Clapham, S.W. 4.

CENTLEMAN, middle-aged, qualified, seeks permanency as Manager or responsible position of trust (Locum appointment entertained); exceptionally good all-round experience; excellent references; London or Home Counties preferred; interview desirable. "Idem," 58 Clapham Park Road, Clapham, S.W.

IMMEDIATELY; competent, active, experienced, all-round Assistant; town or country; terms low. "Chemicus," 136 Rosemary Road, Peckham, S.E.

JUNIOR Assistant (22), passed Part I., requires post; prefers post with good-class Dispensing; recent college training. Apply 162/34, Office of this Paper.

JUNIOR (21), smart and good address, 4 years quick Retail and Dispensing, seeks situation as Dispenser; East Midlands or London preferred. Hudson, 46a Bridge Street, Evesham.

JUNIOR, 8 years' experience and 1st part Minor, requires post; country preferred, though not essential. L. W., 4 Windsor Road, St. Andrew's Park, Bristol.

JUNIOR Assistant (22), five years' experience in good-class business, highly recommended, desires situation; Nottingham district preferred. Wilson, "Elmhurst," Holbrook, Derby.

L ADY Assistant seeks post; part Dispenser; reliable and energetic; five years' busy trade. Apply 151/25, Office of this

LADY Dispenser (Hall) desires post with Doctor or Hospital; Liverpool or Southport district preferred. H. Baker, Hillside, Audlem, Cheshire.

LADY Dispenser, qualified, experienced, desires post with Doctor, whole or part time; North London preferred. "Elsey," 59 Cecile Park, N. 8.

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ADY, M.P.S., desires permanency, Scotland or N. England; eight years' varied experience, one and a-half years' Branch Manager; good references; reasonable salary; not afraid of work. Apply 162/1, Office of this Paper.

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PART TIME.—Qualified Pharmacist desires part-time situation in City or S. London; experienced; excellent references. S. S., c/o Goddens, 220 Hither Green Lane, Lewisham, S.E.

PART-TIME; disengaged evenings, Saturdays midday, and occasional Sundays; highest references; London only. Apply 169/38, Office of this Paper.

PHARMACIST, with B.Sc., final subjects Chemistry and Pharmacy, desires post with Manufacturing Pharmaceutical Chemist; Manchester district preferred; keen and practical; age 22. Apply 169/36, Office of this Paper.

PHARMACIST; Manager, Scnior, or Locum; 35; immediately; highest references; thoroughly experienced. Apply 170/34, Office of this Paper.

QUALIFIED (30), 10 years' good all-round experience, now discugaged, desires post as Manager or Senior. Apply 167/8, Office of this Paper.

QUALIFIED lady desires post with Chemist, Doctor, or Institution; 10 years' experience; Eugland or abroad. Apply 167/17, Office of this Paper.

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QUALIFIED (36); 15 years' good all-round experience; kindly state terms. Apply 170/35, Office of this Paper.

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QUALIFIED, desires post; first-class Dispensing, Counter, and Photographic experience; diseugaged mid-October. Apply 170/17, Office of this Paper.

QUALIFIED (lady, Minor, Hall), disengaged; high-class Dispensing and Retail experience; London preferred. P.C.B. 26/28, Office of this Paper.

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WINTER months (November-March); qualified; 39; experienced all branches; reliable; any capacity; moderate salary. Apply 169/13, Office of this Paper.

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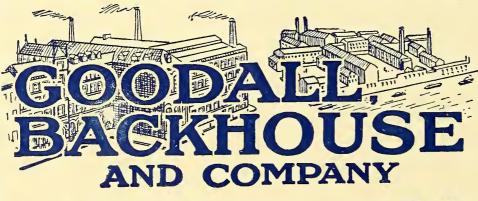
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